Saskatchewan
Agriculture
Development Fund

ADF

Agriculture Development Fund

Progress Report 1988-1989

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Agriculture Development Fund Progress Report

1988-1989

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Minister's Message

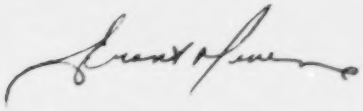
As Minister of Agriculture and Food, I am pleased to present the fourth progress report for the Agriculture Development Fund (ADF).

In 1985, the Government of Saskatchewan announced a commitment to the future of Saskatchewan agriculture through the establishment of the ADF. The past four and one half years have established the ADF as a leader in supporting a variety of research and development projects, the results of which have been put to the test on Saskatchewan farms through the ADF's on-farm demonstration program. These demonstrations continue to play an important role as they display, test, and evaluate new technologies and innovations.

In 1989, in keeping with an expanded mandate for the Department of Agriculture and Food, the ADF's portfolio now includes greater emphasis on the development of agri-food products and food processing.

I wish to express my sincere gratitude to the ADF's Board of Directors and the many committees for their hard work and dedication. I welcome new members and I look forward to your input in the future.

In the upcoming year, the ADF will continue its mandate to support research, development and demonstration projects designed to keep Saskatchewan farmers competitive in global markets. To remain competitive, farmers, scientists, industry and government must continue to work together to ensure the future of the Saskatchewan agriculture and food industry.



Hon. Grant Devine, Premier,
Minister of Agriculture and Food

Manager's Message

The ADF has achieved success in its commitment to supporting agricultural research and development in Saskatchewan. Over the past four and one-half years, the ADF has approved over 1,000 research, development and demonstration projects which will assist various sectors of the agri-food industry.

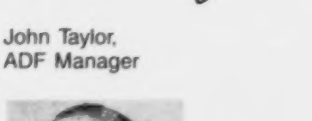
The ADF continued its financial support of the Strategic Funding Agreement, a three-year, $7.5 million agreement with the University of Saskatchewan, supporting a variety of agricultural research projects. As well, a $40 million commitment was approved towards the construction of a new agricultural sciences complex located at the University of Saskatchewan.

In 1989, the ADF also announced its support of biotechnology research suitable for commercial applications through a five-year, $9 million project with AgWest Biotech Inc.

The ADF is also concentrating on commercialization of technologies and products resulting from past and present research and development projects. Research initiatives related to product development will be developed to stimulate agricultural diversification and commercialization.

The ADF has also played a role in determining new directions and target areas within the industry. Currently, in co-operation with Alberta and Manitoba, the ADF is developing a prairie-wide evaluation procedure for research and development. This initiative will help ensure that costly duplication of projects is avoided and help target specific areas for further work.

ADF's commitment to developing innovations in cooperation with the agriculture and food industry will help keep Saskatchewan competitive in world markets.



John Taylor,
ADF Manager

Background

In the spring of 1985, the Government of Saskatchewan initiated the Agriculture Development Fund (ADF) to support agricultural research, development and demonstration projects.

Over the past four and one-half years, the ADF has funded activities in areas such as crops and forages, soils, livestock, land improvement, engineering, marketing, new product development and agricultural processing.

Any individual or organization with an idea that will benefit agriculture is eligible to apply. Applications are processed four times a year: January 1, April 1, July 1 and October 1. On-farm demonstration applications have an additional receipt date of March 1.

Applications are reviewed by seven major technical advisory committees: crops, soils, livestock, engineering, human resources, food processing and marketing, and on-farm demonstration. The technical advisory committees are composed of specialists from Saskatchewan Agriculture and Food, Agriculture Canada, university, agribusiness, producers and producer groups. Committee membership is listed at the end of this report.

Pending approval, successful applicants are invited to enter into a contract with Saskatchewan Agriculture and Food for project implementation.

How To Use This Report

This report provides a brief summary of all agricultural research, development and demonstration activities funded in Saskatchewan during the **18-month period from April 1, 1988 to September 30, 1989**.

For ease of reference, the project information has been divided into Research, Development and Demonstration, and subdivided into the following areas: livestock, engineering, irrigation, economics, crops and forages, extension, processing, new product development, marketing, soils, and other.

Explanation of Codes
A coding system has been used to simplify the listing of project information. The codes are as follows:

ADF — Agriculture Development Fund
ERD — Economic and Regional Development Agreement
HCF — Horned Cattle Fund
MDA — Cattle Marketing Deductions Fund
SAR — Saskatchewan Agricultural Research Fund
AEB — Agriculture and Food, Economics Branch
* — indicates a final report is available

Example Project Listing:

RESEARCH AND DEVELOPMENT

(Project Type)

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
Livestock (Subject Area)	Western Cow-Calf Producers Association	One Year (Length of Project)	6,000 (Funds Paid April 1, 1988 to September 30, 1989)
MDA-R-001 (Project Number)	Moosomin	6,000 (Total Funding Approved)	
Western Cow-Calf Producers Association (Project Title)			
judge effect on animals being moved from one geographical location to another (Brief Description of Project Objective)			

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
Livestock			
* **ERD-D-002** **2.5-01** (ERDA Number) (if applicable)	J. Koal (Project Manager)	ERDA (Funding Agency)	11,350
IRRIGATED SHEEP PASTURE	J. Koal (Applicant)	Three Years	96,850
determine if intensive sheep management along with irrigated forage production can produce a reasonable return to the producer	Saskatchewan Sheep and Wool Marketing Commission (Institution/Company)		
	Saskatoon (Address)		
	(Extension Agrologist District) (if applicable)		

Research

By supporting research, the ADF is helping to secure Saskatchewan's farming future through its commitment to research, development and diversification. This commitment is key to Saskatchewan remaining competitive in the global agricultural marketplace.

A number of ADF's research projects are joint efforts between farm organizations, producer groups and agribusiness. ADF funding has produced new crop varieties, disease and pest control and new production ideas.

For example, two new, malting-barley lines received interim registration and seed was increased to begin commercial malting and brewing tests; three new varieties of high-yielding oilseed flax were developed that produce well in Saskatchewan's black and brown soil zones; a new system of dry-milling attempting to separate the protein and starch in low-grade, hard, red-spring wheat flour has been initiated; the Hungarian brown flea beetle is being tested as a biological control method for leafy spurge; and support was provided for research into herbicide tolerance in flax and lentils and forecasting to control disease in canola.

In co-operation with producer groups and the University of Saskatchewan's Crop Development Centre, the ADF supports improvements of production management techniques and the development of superior cereal, oilseed and special crop varieties.

In livestock, the ADF supports a variety of projects designed to develop and enhance breed quality, reproduction and production efficiency, and disease control.

Ongoing ADF-supported research projects in biotechnology are working on techniques which may be used to: identify and develop micro-organisms as pest control agents; develop vaccines to combat common diseases in cattle and swine; promote animal growth and production and; develop new and improved crop varieties.

The Strategic Research Program at the University of Saskatchewan continues. The 1989/90 contract under which this program is operated provides over $3 million for long term research to improve Saskatchewan's agriculture and food industry in strategically important research areas.

Research is the backbone to success in the agricultural economy. The ADF, in recognizing this fact, will continue to co-operate with producer groups, scientists and technicians in the province to support industry growth and achievement through the support of basic and applied research.

Development

To remain competitive, an industry must be prepared for change and recognize opportunities for development. This belief is the basis for ADF's funding of projects designed to develop improved products, processes and services that will benefit the future of agriculture in Saskatchewan.

The ADF recognizes that combining innovation and initiative is the key to improving today's agricultural economy and diversifying Saskatchewan's future opportunities.

In the past year, the ADF provided funding for a wide variety of development projects throughout the province. These have stimulated marketing and promotion for new products; evaluated the feasibility of new commercial operations; and studied new production ideas.

In the area of soils and crops, funding was provided to encourage the development of value-added products, to increase production and marketing opportunities for traditional and special crops, and to identify potential export opportunities for forage seed. A project was initiated to assess the oil characteristics of edible oil flax for use in food processing.

Livestock development projects have been implemented to examine new technologies and methodologies for improving ventilation and heating systems in animal housing facilities.

In promoting value-added activity, the ADF has supported projects including the Saskatchewan Foodtalk Program which provides extension services to the food processing industry. Other projects have enabled processors to further develop their food products and to research potential markets.

Human resources are essential for the continued viability of the Saskatchewan family farm. Recognizing this, the ADF approved a project coordinated by the Ag Insight Foundation to raise the profile of agriculture in Saskatchewan through education and awareness activities.

Farm safety is important. The ADF supports the **Workshops for the Family** farm safety program. Classroom instruction in a workshop atmosphere provides training in the identification of potential hazards and practices to avoid or reduce risks involved.

Northern Saskatchewan is rich with opportunities and, through funding provided by the ADF, residents are beginning to explore new avenues for development. One area being supported is the production, processing and marketing of wild and cultivated blueberries and ligonberries (or low-bush cranberries).

The ADF will continue to support ideas generated by our agricultural industry, thereby playing a major role in keeping Saskatchewan farmers competitive at home and abroad.

Demonstration

The ADF on-farm demonstration program takes research, developed in controlled environments, into the field where practical application results can be measured.

On-farm demonstrations not only help introduce new developments but they provide farmers with an opportunity to view or have hands-on experience with the latest technological advances.

Bringing new technology to the local level serves two purposes: it provides researchers with an opportunity to evaluate results obtained in actual situations; and, most importantly, it allows producers to evaluate the benefits of new varieties, practices or technologies as they apply in their area.

Many demonstrations are joint efforts between the ADF, producer groups, agribusiness and farmers. Over the past four years, the ADF's on-farm demonstration projects have been an accurate reflection of today's agricultural condition and climate. For example, demonstrations now include new technologies developed outside of Saskatchewan as well as those developed at home. Project managers work with ADF consultants and local extension agrologists to ensure that the information received from the demonstrations is made public, so that farmers can learn from each other. ADF on-farm demonstrations are also concerned with determining the economics of technologies. Projects, therefore, have to be well-organized and monitored closely.

In the areas of soils and crops, efficient fertilizer applications, variety trials, production techniques, fertilizer use and soil conservation and reclamation methods are being explored throughout the province.

Other demonstration projects include: practical forage production; compressed natural gas fuel efficiency; organic soil management; weed control methods; crop rotation practices; and direct seeding versus pre-seeding tillage.

Demonstrations can be initiated by individuals working with their local extension agrologist. In many areas, producers are organizing crop clubs or joining forces with producer and marketing associations to take part in technology transfer seminars. To emphasize the important role such groups can play in technology transfer, the ADF sponsored Saskatchewan's first-ever Crop Club conference in Yorkton. The one-day event attracted over 200 people and representatives from over 25 clubs.

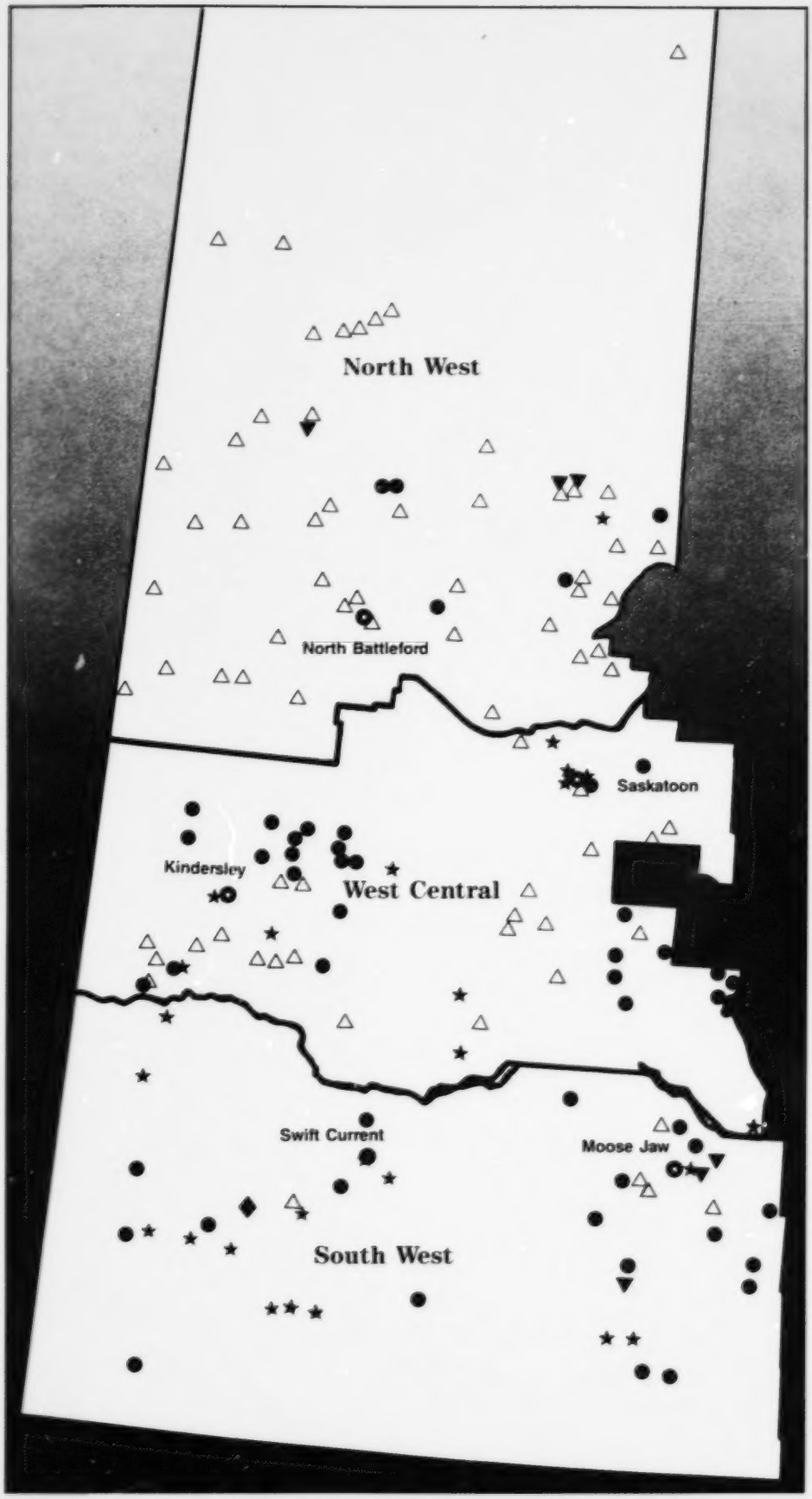
In the areas of livestock and forages, pasture management, livestock production techniques, artificial insemination, disease control, the use of kochia as an alternate feed source and feed ration balancing were demonstrated at farms throughout Saskatchewan during the past year. Rotational grazing systems were evaluated and methods of pastureland management were demonstrated.

The ADF also supported a beef cattle handling facilities project. Co-operators' existing facilities are examined by an engineer and designs for suggested improvements or additions are provided. A technician is available to stake out the structure and assist in the building. Materials are paid for by the co-operator.

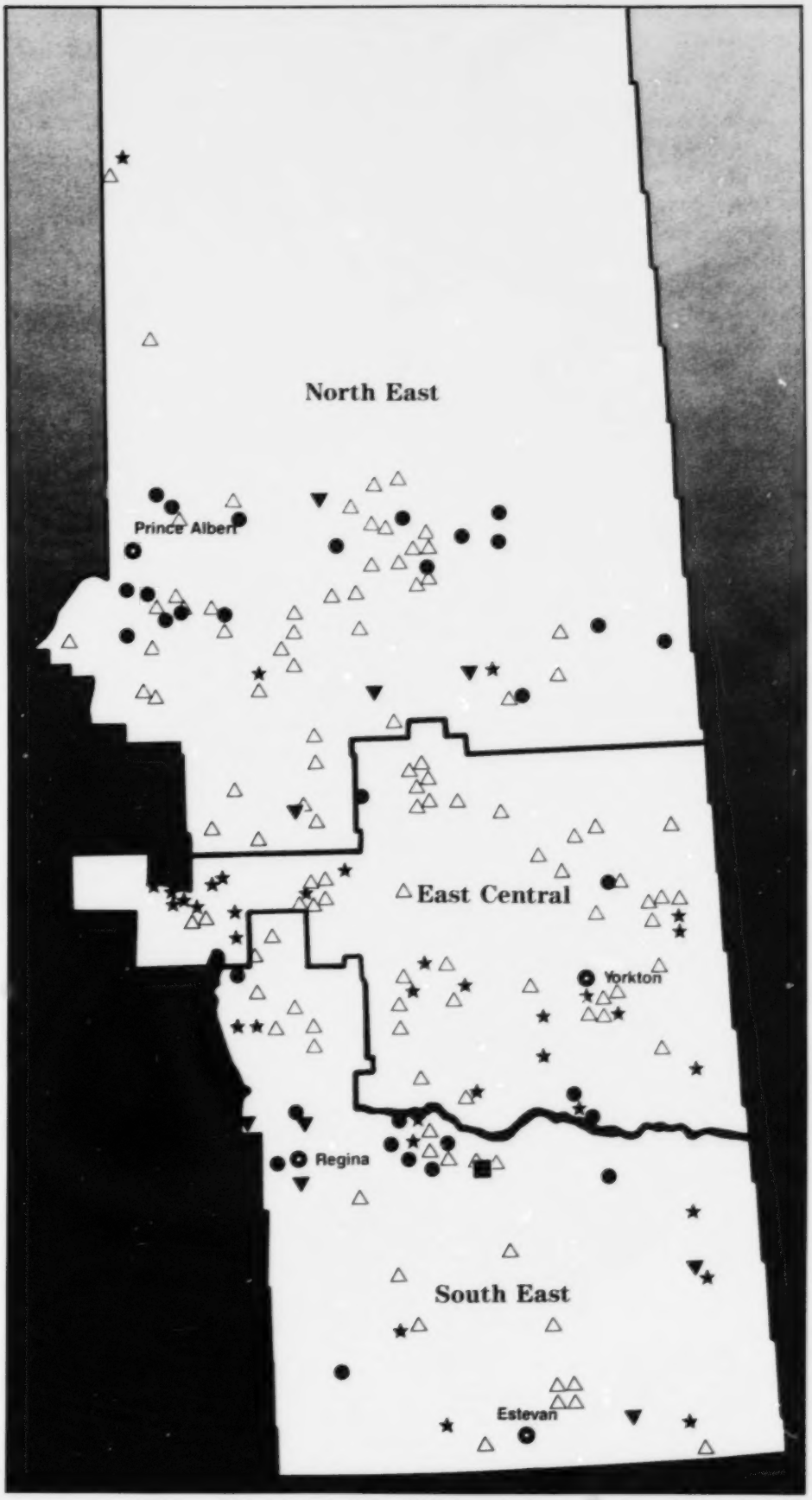
The ADF has also established on-farm demonstration consultants located in the northern, central and southern regions of the province, who serve as local coordinators for projects designed to bring new technologies to Saskatchewan farms.

During the period April 1, 1988 to September 30, 1989, the ADF has supported approximately 250 demonstration projects. On-farm demonstration locations are identified on the two maps found on pages **8** and **9**.

Demonstration Project Locations



Western Saskatchewan



Eastern Saskatchewan

Economic and Regional Development Agreement (ERDA)

Since 1984, Saskatchewan's Agriculture Development Fund and Agriculture Canada have funded and administered over 260 research and development and technology transfer projects through a joint commitment to the Subsidiary Agreement on Agricultural Development under the Canada/Saskatchewan Economic and Regional Development Agreement (ERDA).

The five-year ERDA sub-agreement is a major federal/provincial initiative to facilitate joint planning and co-operation in the funding of practical research, development and on-farm demonstration projects. Projects are developed to improve the profitability and future viability of Saskatchewan's most important industry — agriculture.

Projects funded through ERDA help to improve the productivity and profitability of crop and livestock production; conserve, enhance and reclaim our soil and water resources; and help farm families meet today's increasingly complex technical, financial and personal demands.

In addition, there has been a major effort to develop new and expanded markets for Saskatchewan products and to develop irrigation systems and soil conservation practices.

One example of a province-wide livestock project is the New Pasture and Grazing Technologies Project. The project demonstrates effective grazing methods at various locations throughout the province. It is conducted by four regional rangeland coordinators and involves about 40 producers.

Three years ago, in accordance with the National Agricultural Strategy, ADF committed $500,000 to a pilot project designed to promote soil and crop management practices that will maintain soil quality. The Save Our Soils program allocates funds to participating agricultural districts to administer on-farm demonstrations and to carry out extension activities. Demonstrations consist of control methods for wind and water erosion, soil salinity and declining organic matter levels. Demonstration results are made available through field days, newsletters, individual project reports, educational tours and meetings.

The Farming to Win program, a goal-oriented approach to farm management initiated in 1986, has become extremely important to Saskatchewan farmers. The program now offers courses to farm families or management teams on marketing as well as management.

Final reports from many individual projects will become available in the next year as this agreement comes to an end. Recognizing the important role ERDA has played in supporting agricultural research and development, continued co-operation between the two levels of government is envisioned.

Other Funding Sources

Cattle Marketing Deductions Fund

The Cattle Marketing Deductions Fund (CMDF), administered through the Livestock Branch of Saskatchewan Agriculture and Food supports research and promotes beef and beef products in the province.

Funds are accumulated through a $1.00 check-off or levy for each animal sold in Saskatchewan.

In 1988-89, the Cattle Marketing Deductions Fund collected about $1,000,000. The cattle check-off is a voluntary deduction and producers may request a refund by providing proof of livestock sales.

Horned Cattle Fund

The Horned Cattle Fund (HCF), administered through the Livestock Branch of Saskatchewan Agriculture and Food, promotes research and development in the livestock industry. Funds are collected by deducting $2.00 for each animal with horns that is offered for sale in the province.

In 1988-89, the Horned Cattle Fund collected about $215,000. The Fund also continued to support research into beef herd management and pasture and forage use on its beef herd in Melfort. Expenses incurred by the research project are paid from the sale of finished cattle.

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
LIVESTOCK			
MDA-R-0001 WESTERN COW-CALF PRODUCERS ASSOCIATION judge effect on animals being moved from one geographical location to another	Western Cow-Calf Producers Association - Moosomin	One Year 6,000	6,000
* SAR-R-0003 USE OF ALPHA-2 ADRENORECEPTOR ANTAGONISTS TO RELIEVE RUMINAL STATUS IN RUMINAL LACTIC ACIDOSIS (GRAIN OVERLOAD) determine if administering drugs results in re-establishment of forestomach motility when ruminal stress has occurred in ruminants	E. Crichlow University of Saskatchewan	SARF One Year 18,000	1,800
MDA-R-0006 VETERINARY INFECTIOUS DISEASES ORGANIZATION provide respiratory research in cattle	S. Acres Veterinary Infectious Diseases Organization -	One Year 75,000	75,000
* SAR-R-0008 AN EVALUATION OF WHEAT IN FEEDING MARKET PIGS to compare wheat cultivars of the 3M, hard red spring and winter type with barley in growing and finishing rations for pigs; to assess responses in terms of comparative rates of gain, daily feed intake, etc.	J. Bell University of Saskatchewan	SARF One Year 27,200	2,000
* SAR-R-0013 EVALUATE PRACTICAL POST-PARTUM NUTRITIONAL AND DRUG MANAGEMENT I[BCONTROLLING BREEDING OF BEEF COWS evaluate the inter-relationship between post-partum nutritional levels in beef cows and the use of hormones and prostaglandins to regulate estrus	R. Mapletoft University of Saskatchewan	SARF One Year 8,000	400
* ERD-R-0026 2.1-07 EMBRYO CRYOGENICS determine factors affecting survival of bovine embryos during freezing	R. Mapletoft University of Saskatchewan	ERDA Four Years 250,000	75,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
HCF-R-0031 GASTRO-INTESTINAL HELMINTH PARASITISM IN SASKATCHEWAN CATTLE: AN ABATTOIR SURVEY assess a packing plant survey of gastro-intestinal worm parasites in Saskatchewan	L. Polley University of Saskatchewan	HCF One Year 9,250	9,250
HCF-R-0033 EVALUATION OF VITAMIN E STATUS IN CATTLE check vitamin E and selenium status in cattle	R. Cohen University of Saskatchewan	HCF One Year 10,850	10,850
* SAR-R-0033 DEVELOPMENT OF SUBUNIT VACCINES FOR CONTROL OF HERPESVIRUS-1 INDUCED RESPIRATORY DISEASE test immunogenicity and protective capacity of purified infectious bovine rhinotracheitis and develop an ELISA assay	S. van den Hurk Veterinary Infectious Diseases Organization Saskatoon	SARF One Year 30,000	1,500
* SAR-R-0036 IMPROVEMENT OF PRODUCTION EFFICIENCY OF LIVESTOCK BY VACCINATION AGAINST SOMATOSTATIN investigate growth systems in sheep and dairy and beef cattle	B. Laarveld University of Saskatchewan	SARF One Year 51,000	2,500
HCF-R-0037 HORMONE ASSAYS FOR REPRODUCTIVE RESEARCH IN CATTLE supply a technician to provide hormone assays	N. Rawlings University of Saskatchewan	HCF One Year 7,500	7,500
* SAR-R-0047 DIETARY SULFATE - COPPER INDUCED THIAMIN DEFICIENCY IN LIVESTOCK determine if high copper (Cu) in the presence or absence of excess sulfur (S) depletes animals of thiamin (B1) and if supplemental B1 can prevent this	D. Christensen University of Saskatchewan	SARF One Year 20,000	10,000
* SAR-R-0048 EFFECTS OF SEASON AND WEATHER ON GROWTH RATE OF BULLS IN THE SASKATCHEWAN BULL TEST STATION determine the interrelationships of season and climate on growth rate and feed intake of bulls	G. Christison University of Saskatchewan	SARF One Year 8,000	4,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
HCF-R-0050 PETER MASON evaluate the potential of water level manipulation for black fly control in the Saskatchewan Torch River	P. Mason University of Saskatchewan	HCF One Year 7,239	7,239
* SAR-R-0051 DIETARY PROTEIN AND ENERGY REQUIREMENTS OF FEEDLOT CATTLE DIFFERING IN MATURE BODY SIZE evalaute performance and carcass characteristics of large and medium framed calves fed diets varying in energy and protein content	R. Cohen University of Saskatchewan	SARF One Year 20,000	2,000
* ERD-R-0055 2.4-03 TESTING NEW IMMUNOMODULATORS AND ADJUVANTS investigate infectious diseases in food producing animals	S. Acres Vet. Infectious Disease Organization	ERDA Four Years 300,000	75,000
* ADF-R-0058 PHARMACOKINETIC STUDIES OF CEFAZOLIN IN HORSES AND CATTLE determine feasibility of slowing the absorption of cefazolin after intramuscular injection for the purpose of sustaining efficacious blood concentrations in large animals	M. Papich University of Saskatchewan	ADF Three Years 61,210	13,560
* ERD-R-0061 2.1-11 SOMATOSTATIN-AUTOIMMUNIZATION improve somatostatin immunization methods with subsequent evaluation in lambs, swine, beef and dairy cattle	B. Laarveld University of Saskatchewan	ERDA Four Years 188,000	80,000
* ERD-R-0077 2.1-09 GAME FARMING INDUSTRY SERVICE AND RESEARCH produce an information manual and organize field days and training seminars for game farmers	J. Haigh University of Saskatchewan	ERDA Three Years 48,050	13,300
ERD-R-0093 2.4-13 SHIPPING FEVER COMPLEX conduct field tests to study the effectiveness of two new types of shipping fever vaccine	F. Weeks Unity Veterinary Clinic Unity	ERDA One Year 7,800	2,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-R-0094 2.4-15 HERD HEALTH OF GAME FARM ANIMALS study the effects of two vaccines to combat disease in various deer species on Saskatchewan game farms	J. Haigh Saskatchewan Game Farmers Association Yorkton	ERDA Two Years 50,500	10,500
ADF-R-0146 NUTRITION IN HORSES study feed utilization of horses and steers and study feed management as it relates to development of growing horses	N. Cymbaluk University of Saskatchewan	ADF Four Years 200,000	75,000
ADF-R-0148 EVALUATION OF FARROWING SYSTEMS evaluate currently available crates and floors for farrowing sows and evaluate novel farrowing systems	G. Christison University of Saskatchewan	ADF Three Years 150,000	40,000
* ADF-R-0149 STUDY OF FOUNDER-LIKE CHANGES IN THE HOOVES OF BEEF CATTLE UNDER INTENSIVE FEEDING CONDITIONS compare normal anatomy of the corium of the hoof with histopathological changes resulting from nutrition	P. Greenough University of Saskatchewan	ADF Three Years 60,000	35,000
ADF-R-0168 FURTHER STUDIES ON ENZYMATIC IMPROVEMENT OF SASKATCHEWAN GROWN FEEDSTUFFS increase the competitiveness of Saskatchewan grains in the local and international poultry feed markets	H. Classen University of Saskatchewan	ADF Four Years 40,000	27,000
* ERD-R-0212 2.6-03 STUDY OF THE MARKET OPPORTUNITIES FOR SASKATCHEWAN LAMB identify characteristics of the market for Saskatchewan lamb and mut and propose strategies for exploiting and developing markets	J. Kool Sask. Sheep and Wool Marketing Commission Saskatoon	ERDA Two Years 40,000	5,000
* ERD-R-0213 2.1-13 REPRODUCTIVE LOSS IN CATTLE CAUSED BY CHROMOSOME ABNORMALITIES improve conception rates in Saskatchewan cattle, reduce the number of embryonic and fetal deaths in cattle and reduce the calving intervals	P. Flood University of Saskatchewan	ERDA Two Years 50,000	10,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-R-0216 2.4-20 VALUE OF PARENTERAL COPPER GLYCINATE, ORAL SUSTAINED RELEASE COPPER OXIDE NEEDLES AND TRACE MINERAL SUPPLEMENTED SALT IN IMPROVING FEMALE CATTLE determine the value of a presently available free-choice trace mineral supplemented salt of parenteral copper glycinate not yet approved for commercial use in Canada and a rumen bolus of copper oxide needles	M. Smart University of Saskatchewan	ERDA Three Years 105,616	37,238
ERD-R-0217 2.1-14 PATHOPHYSIOLOGY OF TESTICLE SIZE IN YEARLING BULLS determine the relationship between scrotal circumference measurement in yearling ROP beef bulls of different beef breeds and various other functional parameters	W. Cates University of Saskatchewan	ERDA Two Years 60,000	15,000
* ERD-R-0221 2.4-21 TESTING AND EVALUATING OF A "CONFORMATION DETERMINATION SYSTEM" (CDS) AS A TOOL FOR USE IN THE GENETIC IMPROVEMENT OF CATTLE. to complete the development of CDS and prepare it for field trials	P. Greenough University of Saskatchewan Saskatoon	ERDA One Year 15,480	15,480
* ERD-R-0223 2.4-23 DEVELOPMENT OF A SUBUNIT VACCINE FOR CONTROL OF SHIPPING FEVER test immunogenicity and protective capacity of bovine herpesvirus-1 (BHV-1) glycoproteins expressed in baculovirus and test BHV-1 glycoproteins produced in micro-carrier cultures for their immunogenicity and protective capacity	S. van den Hurk Vet. Infectious Disease Organization	ERDA One Year 25,000	12,500
* ERD-R-0225 2.6-05 AN INVESTIGATION OF THE MARKET OPPORTUNITIES FOR PRODUCT DIFFERENTIATED SASKATCHEWAN BEEF identify the changing needs of consumers as they apply to beef through the development of differentiated products to meet the needs of the user	G. McGlaughlin Saskatchewan Wheat Pool Regina	ERDA Two Years 75,000	20,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-R-0226 2.4-25 VIROLOGICAL INVESTIGATIONS INTO BOVINE RESPIRATORY DISEASE study the time sequence and pattern of serological response to infection by RSV, PI3, IBR and BVD viruses in cattle experiencing outbreaks of acute respiratory disease	P. Durham University of Saskatchewan	ERDA Two Years 41,700	30,000
ADF-R-0228 INCREASING THE MARKET POTENTIAL OF SASKATCHEWAN FEED GRAINS FOR POULTRY improve the market potential of Saskatchewan feed grains for poultry	H. Classen University of Saskatchewan	ADF Three Years 158,000	52,500
ADF-R-0229 PROTEIN AND ENERGY REQUIREMENTS FOR FEEDLOT CATTLE determine the protein and energy requirements for feedlot cattle with respect to carcass gain, feed conversion, climate, protein quality, weaning and sex	R. Cohen University of Saskatchewan	ADF Three Years 40,000	31,000
* ERD-R-0232 2.3-12 INVESTIGATION OF THE DESIGN AND MANUFACTURING REQUIREMENTS FOR A PASSIVELY CONTROLLED AUTOMATIC AIR INLET a theoretical investigation into the operating principles of the passive air inlet systems, verification by laboratory measurements and development of guidelines for design and manufacuture	M. Bantle Bantle Engineering Research Saskatoon	ERDA One Year 9,970	2,970
ERD-R-0237 2.1-19 THE COMPLETION OF A COMPUTER BASED SYSTEM FOR MEASURING THE SHAPE, ANGULARITY AND SIZE OF CATTLE develop a computer system to study lameness in Saskatchewan beef and dairy herds to permit data entry for potential stressors of management, nutrition, conformation and production	P. Greenough University of Saskatchewan	ERDA Three Years 60,000	50,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-R-0244 2.3-13 CONTROL OF CHALKBROOD AND OTHER FUNGAL PROBLEMS IN LEAFCUTTER BEES maintain a viable alfalfa seed industry by conducting research on chalkbrood species and other fungi associated with leafcutter bees; develop new methods for the control of fungi	B. Weighill Saskatchewan Alfalfa Seed Producers Carrot River	ERDA Three Years 80,000	60,000
ADF-R-0249 PREPARATION OF CANOLA PROTEIN CONCENTRATIONS AND INCORPORATION IN SALMONID DIETS test several methods of processing commercial canola meal to produce a protein concentrate capable for use in Salmonid feed formulations	S. McCurdy Protein, Oil and Starch (POS) Saskatoon	ADF Two Years 98,847	40,000
ADF-R-0261 MANAGEMENT OF WEANLING PIGS minimize post-weanling environmental and social stress and maximize feed intake by examining feeding systems and feedstuffs	D. Christensen University of Saskatchewan	ADF Three Years 180,000	102,000
ADF-R-0262 MANAGEMENT TO INCREASE SOW PRODUCTION develop management systems to improve the reproductive fertility of sows and gilts	D. Christensen University of Saskatchewan	ADF Three Years 360,000	204,000
ADF-R-0263 HORMONAL MANIPULATION OF ANIMAL PRODUCTION develop the somatostatin immunization technique with initial laboratory evaluation in rats and mice	D. Christensen University of Saskatchewan	ADF Three Years 150,000	85,000
ADF-R-0269 ANIMAL BIOTECHNOLOGY focus on the immunological modulation of growth and reproduction	J. Manns University of Saskatchewan	ADF Three Years 560,000	433,200
ERD-R-0286 2.1-16 IMPROVEMENT OF REPRODUCTIVE EFFICIENCY IN THE GILT improve the efficiency of reproduction through methods of inducing first estrus and predicting fertility in young developing gilts	N. Rawlings University of Saskatchewan	ERDA Two Years 68,800	35,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-R-0289 2.1-17 EMBRYONIC LOSS IN CATTLE CAUSED BY CHROMOSOMAL TRANSLOCATIONS determine the degree to which fertility is reduced in cattle carrying translocations	S. Schmutz University of Saskatchewan	ERDA Two Years 40,000	35,000
* ERD-R-0290 2.4-26 IMPROVEMENT OF PRODUCTION EFFICIENCY OF LIVESTOCK BY VACCINATION AGAINST SOMATOSTATIN improve efficiency of growth in swine, cattle and sheep by developing a vaccination technique against somatostatin	B. Laarveld University of Saskatchewan	ERDA One Year 27,400	25,000
* ERD-R-0291 2.2-18 IMPROVING PERFORMANCE OF PIGS FED POOR QUALITY DRINKING WATER study the problems associated with drinking water quality to identify the causes of poor performance and health and develop a practical solution of use to Saskatchewan pork producers	J. Patience University of Saskatchewan	ERDA One Year 47,006	47,006
* ERD-R-0292 2.2-16 SWINE NUTRITION GUIDE provide an easy-to-understand guide on the feeding of pigs as well as practical, detailed information enabling pork producers to utilize local ingredients in swine diet formulation	J. Patience University of Saskatchewan	ERDA Two Years 26,450	24,000
ERD-R-0293 2.2-19 NOVEL APPROACHES TO SWINE DIET FORMULATIONS develop an effective analysis to determine the electrolyte balance of ingredients and mixed feeds and use this in improving swine diet formulation	J. Patience University of Saskatchewan	ERDA Three Years 137,620	105,000
ERD-R-0296 2.2-17 INTERACTIONS OF THIAMIN, COPPER, SULFUR AND LEAD IN RUMINANTS conduct multidisciplinary research into metabolism of trace minerals and thiamin and their interactions in ruminants	D. Christensen University of Saskatchewan	ERDA One Year 31,000	27,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-R-0298 2.6-09 SASKATCHEWAN PORK INDUSTRY DEVELOPMENT CENTRE assess the implications and resources required for SPPMB to assume responsibility for pork production information and extension services	J. Morris Sask. Pork Producers Mrkting. Board Saskatoon	ERDA One Year 3,000	2,500
ERD-R-0305 2.4-27 ESTABLISHMENT OF A SUCCESSFUL TREATMENT FOR GRAIN OVERLOAD IN CATTLE assess the efficacy of drugs in the treatment of cattle experiencing experimentally induced grain overload	E. Crichlow University of Saskatchewan	ERDA Two Years 54,294	30,000
ERD-R-0309 2.4-28 STUDY RELATED TO CONTINUING EDUCATION FOR SASKATCHEWAN VETERINARIANS develop recommendations for enhancing the continuing education program at the Western College of Veterinary Medicine	R. Kelly Sask. Veterinary Medical Association Saskatoon	ERDA One Year 2,000	1,500
* ERD-R-0312 2.4-29 DETECTION OF GENETIC POLYMORPHISM OF PLASMA PROTEINS IN CATTLE BY IMMUNOBLOTTING develop techniques to detect genetic polymorphism of complement proteins which play a major role in resistance to infectious diseases of cattle	H. Tabel University of Saskatchewan	ERDA One Year 31,239	25,000
* ERD-R-0314 2.1-18 INCIDENCE OF TRANSLOCATIONS IN BEEF BULLS document the incidence of chromosome translocations in common beef breeds in Saskatchewan and determine if all bulls are at risk for this translocation or if it is restricted to the subfertile group	S. Schmutz University of Saskatchewan	ERDA One Year 39,000	29,000
* ADF-R-0327 INVESTIGATING CHLORIDE CONDUCTANCE INHIBITORS AS TREATMENTS FOR NEONATAL AND WEANLING DIARRHEA IN PIGS study the effects, activation and extent of inhibition of chloride conductance	G. Forsyth University of Saskatchewan	ADF Three Years 130,650	40,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-R-0357 2.4-30 THE EFFECT OF DIETARY SULFUR ON AVAILABLE THIAMIN AND DISEASE RELATED TO THIAMIN DEFICIENCY IN SASKATCHEWAN CATTLE establish available thiamine requirements in the presence of dietary sulfur normally encountered by Saskatchewan cattle and evaluate thiamine deficiency	C. Rousseaux University of Saskatchewan	ERDA Three Years 20,000	12,000
ERD-R-0359 2.4-31 DEVELOPMENT OF A DISEASE OR SUB-OPTIMAL PRODUCTION INVESTIGATIVE UNIT IN SASKATCHEWAN make precise observations on naturally occurring productivity losses and determine if a field investigative mechanism is a necessary part of the veterinary diagnostic laboratory system in Saskatchewan	E. Janzen University of Saskatchewan	ERDA Two Years 40,000	20,000
ERD-R-0360 2.4-32 EMBRYO COLLECTION, FREEZING, DRYING AND TRANSFER STUDIES IN ELK AND BISON superovulate, collect and transfer embryos from bison to domestic cattle and improve on previous attempts to superovulate, collect and freeze embryos of elk	J. Haigh University of Saskatchewan	ERDA Two Years 20,000	10,000
ERD-R-0362 2.4-33 REVIEW OF WILDLIFE DISEASE STATUS IN GAME ANIMALS IN NORTH AMERICA develop disease profiles for game farm animals and evaluate detection and treatment procedures for various wildlife disease parasites	R. Clark Saskatchewan Game Farmers Association Fairlight	ERDA One Year 30,000	24,000
ADF-R-0372 BEEF PRODUCTION develop technology for the identification of genetic characteristics required to increase productivity to meet consumer demands for meat	D. Christensen University of Saskatchewan	ADF Two Years 300,000	240,000

RESEARCH

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ERD-R-0374 2.3-10 ENERGY ANALYSIS OF ALTERNATIVE COMBINATIONS OF BUILDING ENVIRONMENT, HEAT RECOVERY SYSTEMS AND SOLAR HEATING SYSTEMS FOR A BROILER CHICKEN HOUSE verify that Doe-2 can accurately predict the energy usage in an existing facility; identify and priorize factors which significantly affect the energy use; predict the energy usage that results from indoor temp. cycles	M. Bantle Bantle Engineering Research Saskatoon	ERDA Two Years 18,967	3,000
* ERD-R-0375 2.4-16 VIROLOGICAL INVESTIGATIONS INTO OUTBREAKS OF ATYPICAL DIARRHEA IN CALVES AND PIGLETS investigate diarrhea outbreaks in calves and piglets to determine the responsible virus	F. Durham University of Saskatchewan	ERDA One Year 15,000	5,000
ERD-R-0376 2.4-17 A FIELD STUDY OF PROPHYLACTIC TREATMENT REGIMES FOR THE PREVENTION OF RESPIRATORY DISEASES IN FEEDLOT CALVES determine the costs and benefits of mass treatment of cattle with injectable antibiotics or other drugs upon arrival in a commercial feedlot	E. Janzen University of Saskatchewan	ERDA Two Years 11,232	3,232
ERD-R-0377 2.4-22 THE IMMUNOPATHOGENESIS OF BOVINE HERPESVIRUS-1 INFECTION IN CALVES emphasize the previously unstudied role of specific immune cells in the whole animal in controlling or exacerbating infections caused by this virus	C. Doige University of Saskatchewan	ERDA Three Years 45,000	18,000
* ERD-R-0379 2.6-08 PROVINCIAL GAME MEAT MARKET STUDY determine the market size and characterize the market for game meat in Saskatchewan	R. Lorezel Provincial Game Farmers Association Handel	ERDA One Year 23,300	20,000
ERD-R-0380 2.1-15 PIG DEVELOPMENT FOR THE 90'S research and develop a structurally improved breeding animal designed for longevity under variable management conditions	E. Johnson Northern Pig Development Co. Ltd. Regina	ERDA Three Years 750,000	375,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-R-0381 2.2-21 EFFECT OF ANHYDROUS AMMONIA AND UREA ON FERMENTATION AND FEEDING VALUE OF HIGH MOISTURE CEREAL GRAINS evaluate the potential of anhydrous ammonia and urea in improving the fermentation characteristics, aerobic stability and feeding value of high-moisture barley for livestock	D. McCartney Agriculture Canada Melfort	ERDA One Year 37,000	30,000
ERD-R-0398 2.2-23 TREATMENT OF SCREENINGS TO IMPROVE THE NUTRITIONAL VALUE FOR CATTLE AND DESTROY WEED SEED VIABILITY improve the nutritive value of screenings and the weed seeds contained in it, and destroy the viability of those seeds by processing them with anhydrous ammonia and/or pelleting	B. Cuthbert Weyburn Inland Terminal Weyburn	ERDA Two Years 39,500	20,000
ERD-R-0405 2.4-35 VIROLOGICAL INVESTIGATIONS INTO OUTBREAKS OF ATYPICAL DIARRHEA IN CALVES AND PIGLETS develop improved test procedures to detect atypical rota viruses and corona viruses	P. Durham University of Saskatchewan	ERDA One Year 16,640	8,000
ERD-R-0410 2.4-34 STUDIES ON IMMUNITY TO UREAPLASMA DIVERSUM GENITAL INFECTIONS IN BEEF HEIFERS characterize the local (genital) and systemic immunological responses of viruses in heifers to genital infections with urea plasma diversum and determine the feasibility of vaccination as a method of control/prevention	J. Saunders University of Saskatchewan	ERDA Two Years 42,850	32,000
ADF-R-0414 UNIQUE TREATMENT MODALITIES FOR JOINT INFECTION IN CATTLE create two economical models of treatment of joint infections in young and growing cattle	J. Ferguson University of Saskatchewan	ADF Two Years 16,150	6,000

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ADF-R-0415 THE EVALUATION OF EDIBLE OIL FLAX (LINOLA) MEAL IN MONGASTRIC AND RUMINANT NUTRITION evaluate edible oil flax meal by nutrition and relation to linseed meal for poultry, swine and dairy cattle	W. Scowcroft Biotechnica Canada Calgary	ADF Two Years 101,080	30,000
ADF-R-0422 DEVELOPMENT OF MONOCLONAL ANTIBODIES FOR DIAGNOSIS OF INFECTIOUS DISEASES OF LIVESTOCK develop methods for improved diagnosis of infectious diseases	E. Clark University of Saskatchewan	ADF Two Years 173,485	33,268
ADF-R-0423 EVALUATION OF NEW BACKRUBBER INSECTICIDES FOR CONTROLLING BLACK FLIES ON CATTLE determine, during two consectutive black fly seasons, the effectiveness of unregistered insecticides, applied by backrubber, in protecting pastured beef cattle from black fly attack	P. Mason Agriculture Canada Saskatoon	ADF Two Years 20,840	8,000
ERD-R-0429 2.4-36 THE AMERICAN ELK AND MENINGEAL WORM: DO ELK SURVIVE IT? CAN THEY TRANSMIT IT? CAN WE DETECT IT? determine the pathogenicity of meningeal worm for white-tailed deer and Americna elk at two dose levels and determine whether meningeal worm can complete its life cycle in elk	W. Samuel University of Alberta Edmonton	ERDA One Year 60,000	45,000
ADF-R-0432 IODINE CONTENT OF SASKATCHEWAN MILK determine the iodine content of milk on individual dairy farms in Saskatchewan over a six month period	D. Christensen University of Saskatchewan	ADF One Year 20,000	15,000
ADF-R-0437 THE DEVELOPMENT OF A RAPID, SENSITIVE AND SPECIFIC TEST FOR DETECTING BOVINE VIRAL DIARRHEA VIRUS develop a rapid test that will detect small amounts of BVDV in clinical samples	V. Misra University of Saskatchewan	ADF One Year 110,700	15,600

RESEARCH

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ADF-R-0438 DEVELOPMENT OF AN ANTIBODY-BASED STAINING METHOD FOR DIAGNOSIS OF INFLUENZA IN PIGS develop an improved test to detect influenza virus infections in pigs	E. Clark University of Saskatchewan	ADF One Year 5,925	2,500
ADF-R-0447 BLACKFLY LARVICIDE EFFICACY determine the distribution of BTH-14 in a river segment on the South Saskatchewan River after a BTH-14 treatment for the control of black flies	G. Khachatourians University of Saskatchewan	ADF One Year 20,960	15,960
ADF-R-0449 TUBE FEEDING SUPPLEMENTAL MILK TO REDUCE PRE-WEANING LOSSES IN SUCKLING PIGS discover when supplemental milk should be given to weak piglets; at birth or after a fast	D. Christison University of Saskatchewan	ADF One Year 4,000	3,000
ERD-R-0450 2.4-37 A STUDY OF VITAMIN A TOXICOSISIN IN GROWING PIGS produce Vitamin A toxicosisin in experimental pigs and document clinical signs and post mortem findings with special reference to growth plates of the skeleton	C. Doige University of Saskatchewan	ERDA One Year 23,300	13,300
ADF-R-0450 DEVELOPMENT OF A MOLECULAR TECHNIQUE FOR THE SEXING OF BOVINE EMBRYOS develop techniques for the production of sexed, frozen embryos for Saskatchewan breeders for national and international marketing and for domestic use	R. Mapletoft University of Saskatchewan	ADF Two Years 201,000	74,400
ENGINEERING			
* SAR-R-0026 MATERIALS DATABASE FOR TILLAGE TOOLS determine and evaluate a range of materials for tillage tools	S. Bhole University of Regina Regina	SARF One Year 8,300	830

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0039 PUNCH SEED AND FERTILIZER PLACEMENT WHEEL FOR CONSERVATION FARMING develop a spoked-wheel air seeder; fabricate and field-prove with on-farm testing comparing yields with conventional conservation seeding methods	R. Rogers Rogers Engineering Inc. Saskatoon	ADF Two Years 80,400	10,000
* ADF-R-0218 SOIL EROSION CONTROL VALUE OF IMPORTANT CROPS AND TILLAGE SYSTEMS IN SASKATCHEWAN gather experimental data with which to evaluate effects of conservation treatments and present the results in a practical format	C. Armstrong University of Saskatchewan	ADF Two Years 29,000	10,000
ADF-R-0274 ACIDIC EXTRACTION AND ULTRAFILTRATION PROCESSING OF COMMERCIAL CANOLA MEAL investigate a process for upgrading canola meal which utilizes acidic extraction followed by ultrafiltration processing of the extract for protein recovery and antinutrient elimination	S. McCurdy Protein, Oil and Starch (POS) Saskatoon	ADF One Year 25,455	20,000
* ADF-R-0276 DEVELOPMENT OF CONVEYING EQUIPMENT GUIDELINES FOR OPTIMUM PULSE CROP QUALITY determine guidelines to minimize pulse crop damage by selecting and using proper conveying equipment	H. Kydd Prairie Agr. Machinery Institute Humboldt	ADF One Year 7,500	7,500
* ADF-R-0278 EFFECTIVENESS OF KNIFE SYSTEMS FOR CUTTING PULSE CROPS assess the effectiveness of several knife systems in meeting the special cutting requirements of pulse crops	M. Jorgensen Sask. Pulse Crop Development Bd. Saskatoon	ADF Two Years 15,000	15,000
ADF-R-0310 TOOLS FOR THE DISABLED FARMER assess the tool use capabilities of prosthetics available, investigate modifications for improvement and document devices available, modifications being used and design improvements	L. Hill Prairie Agr. Machinery Institute Humboldt	ADF One Year 15,000	13,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0311 DESIGNS TO EXPAND HANDICAPPED FARMERS' ABILITIES investigate, evaluate and propose machine designs compatible with handicapped farmers' disabilities	L. Hill Prairie Agr. Machinery Institute Humboldt	ADF Two Years 22,400	18,000
ADF-R-0313 REDUCING CHLOROPHYLL IN HARVESTED CANOLA assess the performance of natural air drying and modified natural air drying as a method of chlorophyll reduction in canola and recommend on-farm drying techniques	K. Lewis Sask. Canola Growers Association Saskatoon	ADF Two Years 38,566	15,876
* ERD-R-0346 2.3-09 A STUDY OF THE PERFORMANCE OF COMMERCIAL VENTILATION CONTROLLERS FOR LIVESTOCK BARNS. to study the operating characteristics, accuracy, reliability and durability of electromechanical and electronic controllers commonly used by Sask. farmers in livestock barn ventilation systems	M. Jorgenson Prairie Agr. Machinery Institute Humboldt	ERDA Two Years 25,100	10,100
ADF-R-0380 RESISTANCE OF FORAGES AND GRAIN SEEDS IN BULK TO AIRFLOW determine experimentally the resistance of bulk seeds and forages to airflow	S. Sokhansanj University of Saskatchewan	ADF Three Years 51,780	20,000
ERD-R-0414 2.3-14 IDENTIFICATION OF APPROPRIATE METHODS FOR CALCULATING FLOOR HEAT LOSS AND AIR INFILTRATION IN A LIVESTOCK BUILDING recommend the most appropriate method to calculate foundation, perimeter and floor heat loss from a livestock building and identify the limitations of the method	M. Bantle Bantle Engineering Research Saskatoon	ERDA One Year 8,835	6,000

RESEARCH

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ERD-R-0449 1.3-15 INVESTIGATION OF PNEUMATIC SEEDER PERFORMANCE FOR METERING PULSE SEEDS assess damage to pulse seeds by various types of meters & distribution manifolds on commercially available seeders; provide guidelines for selecting suitable air seeder and guidelines for redesign of metering & dist. systems	M. Jorgenson PAMI Humboldt	ERDA One Year 19,800	10,000
IRRIGATION			
ADF-R-0017 PLANT DISEASES OF IRRIGATED CEREAL assess the incidence and severity and evaluate control methods of plant diseases of irrigated cereals	L. Duczek Agriculture Canada Saskatoon	ADF Four Years 111,300	28,400
ADF-R-0040 MANAGEMENT OF FORAGE PRODUCTION UNDER IRRIGATION establishment of nine forage field trials for comparision purposes at the Outlook Irrigation Centre	B. Goplen Agriculture Canada Saskatoon	ADF Four Years 127,000	53,500
* ADF-R-0042 OPTIMIZING YIELDS FOR PRODUCTION OF INDUSTRIAL STARCH AND TABLE STOCK POTATOES IN SASKATCHEWAN determine which cultivars will regularly yield the maximum quantity of starch per unit area under irrigated production and demonstrate agronomic and irrigation techniques	D. Dabbs University of Saskatchewan	ADF Four Years 66,100	16,367
ADF-R-0043 ASSESSMENT OF AREA-SPECIFIC ECONOMIC OF ON-FARM IRRIGATION DEVELOPMENT develop a simulation model for on-farm decision making with respect to irrigation under Saskatchewan conditions	S. Kulshreshtha University of Saskatchewan	ADF Four Years 88,300	33,900

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-R-0045 EVALUATION OF FIELD BEANS AS AN ALTERNATIVE GRAIN AND SEED CROP FOR IRRIGATED REGIONS OF SASKATCHEWAN determine the potential of dry beans as an alternative short season, irrigated crop; search for higher yielding, early maturing cultivars and generate information on crop management practices to optimize yield and quality	A. Slinkard University of Saskatchewan	ADF Three Years 83,210	19,530
ADF-R-0051 SCREENING FOR PHYTOPATH RESISTANCE IN CEREAL, PULSE AND OILSEED CROPS FOR HIGH-MOISTURE ENVIRONS OF SASKATCHEWAN establish an intensive irrigation field disease screening system at the University of Saskatchewan and begin disease screening for resistance to various diseases	B. Harvey University of Saskatchewan	ADF Four Years 86,600	32,600
* ADF-R-0056 HERBICIDE, NUTRIENT AND WATER DRAINAGE FROM AN IRRIGATED FIELD determine the amount and quality of surface and subsurface drainage water after a rainfall and irrigation; efficiency for the reuse of irrigation drainage water	W. Nicholaichuk National Hydrology Research Institute Saskatoon	ADF Three Years 61,100	19,700
ADF-R-0118 ASSESSING THE AGRONOMIC AND ENVIRONMENTAL IMPACTS OF USING POOR QUALITY GROUNDWATER FOR IRRIGATION assess changes in salinity of soils irrigated with groundwater, determine if changes in quality of water can be related to the leaching of salts; assess impact on source aquifers when groundwater is pumped for irrigation	J. Gillies University of Saskatchewan	ADF Three Years 47,700	12,900

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* SAR-R-0017 ECONOMICS OF REDUCED TILLAGE SYSTEMS IN SASKATCHEWAN/THE ON-FARM ECONOMIC COSTS OF SOIL EROSION determine the short and long-run economic consequences of soil erosion, the implications of adopting alternative minimum and zero-tillage systems and the economic costs of restoring soil productivity	R. Zentner University of Saskatchewan	SARF One Year 20,000	2,000
* ADF-R-0195 WESTERN GRAINS STUDY quantify the world demand for food and feed grains, examine the competitive strength of Canada's prairie agriculture in world export markets and project further development	J. Maxwell Economic Council of Canada Ottawa	ADF Two Years 300,000	40,000
ADF-R-0264 FARM INCOME POLICY evaluate the long-term strategy of Saskatchewan Agriculture	H. Furtan University of Saskatchewan	ADF Three Years 144,250	82,975
ADF-R-0265 DIVERSIFICATION assist in the development of an economic diversification strategy for Saskatchewan Agriculture	H. Furtan University of Saskatchewan	ADF Three Years 88,600	52,020
ADF-R-0266 COST OF PRODUCTION continue the maintenance of the Top Management Farmer Models developed by Dr. R.A. Schoney	H. Furtan University of Saskatchewan	ADF Two Years 60,000	30,000
ADF-R-0373 FARM FINANCE analyze the characteristics of farmers carrying debts in Saskatchewan	H. Furtan University of Saskatchewan	ADF Two Years 70,500	58,350
ADF-R-0413 IMPACT OF CROP INSURANCE POLICY ON LAND USE AND TECHNOLOGY ADOPTION analyze land use and soil conservation, risk managements and technology adoption	H. Furtan University of Saskatchewan	ADF Two Years 170,500	50,000

RESEARCH

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ERD-R-0434 2.6-14 SASKATCHEWAN HORSE INDUSTRY PERSPECTIVE PHASE II develop a detailed profile of the Sask. horse industry and describe the overall economic impact of activities; assess development potential and recommend developmental strategies	B. Hanson Agricultural Development Corp. of Sask. Regina	ERDA One Year 118,220	80,000
CROPS AND FORAGES			
AEB-R-0001 HIGH YIELDING SEMI-DWARF WHEAT PRODUCTION IN SASKATCHEWAN make an economic analysis of institutional constraints to the expansion of high yielding semi-dwarf wheat production in Saskatchewan	Prairie Horizons Ltd. - Regina	One Year 35,000	5,000
* ADF-R-0003 INTEGRATED MANAGEMENT OF SCLEROTINIA BLACKLEG CANOLA - EAST CENTRAL SASKATCHEWAN economically return canola yields in East Central Saskatchewan to consistently high levels through improved disease management	R. Morrall University of Saskatchewan	ADF Three Years 89,700	6,722
* SAR-R-0016 DEVELOPMENT OF TECHNIQUES AND STRATEGIES TO SELECT FOR GRAIN YIELD, PROTEIN CONTENT AND KERNEL HARDNESS IN WHEAT develop and evaluate calibration constants for a near-infrared reflectance spectrophotometer, formulate selection strategy and implement evaluation and selection strategies .	T. McCaig Agriculture Canada Swift Current	SARF One Year 36,000	1,800
ADF-R-0027 MAXIMIZING BARLEY PRODUCTION UNDER HIGH INPUT CONDITIONS VIA SEMI-DWARF VARIETIES evaluate production potential of a new semi-dwarf strong-strawed barley variety in terms of moisture requirements under irrigation and natural conditions	B. Rossnagel University of Saskatchewan	ADF Four Years 141,598	35,385

RESEARCH

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SAR-R-0039 SCREENING DURUM WHEAT AND WILD EMMER WHEAT GERMPLASM FOR DROUGHT TOLERANCE evaluate and characterize the germplasm of durum wheat and its immediate evolutionary progenitor, wild emmer wheat, for drought tolerance	S. Jana University of Saskatchewan	SARF One Year 16,000	8,000
* SAR-R-0041 ROOTING OF AMELANCHIER ALNIFOLIA PRODUCED IN VITRO AND THE SUBSEQUENT ESTABLISHMENT OF ROOTED SHOOTS UNDER GREENHOUSE OR FIELD CONDITIONS propagation of Saskatoons	C. Stushnoff University of Saskatchewan	SARF One Year 24,000	900
* SAR-R-0054 BIODEGRADATION OF TRICHOTHECENE FUNGAL TOXINS search for bacteria in Saskatchewan capable of degrading mycotoxins in vitro	G. Khachatourians University of Saskatchewan	SARF Two Years 17,000	1,700
* SAR-R-0062 DEVELOPMENT OF A RED COTYLEDON LENTIL FOR SASKATCHEWAN develop a red cotyledon lentil similar in yield and performance to the yellow cotyledon variety Eston	A. Slinkard University of Saskatchewan	SARF One Year 11,000	1,100
* SAR-R-0067 THE EFFECT OF GROWTH REGULATORS ON WINTER SURVIVAL, LODGING AND YIELD OF NORSTAR WINTER WHEAT AND MUSKETEER FALL RYE determine effect of growth regulators on lodging resistance of winter cereals, on yield and on winter survival	H. Austenson University of Saskatchewan	SARF One Year 30,000	7,500
* ERD-R-0104 1.3-01 CANOLA POTENTIAL IN SASKATCHEWAN demonstrate current and new technology to increase average yields by 25 per cent in 1989	E. Bendig Sask. Canola Growers Association Birch Hills	ERDA Four Years 499,146	47,452
ERD-R-0105 1.1-06 PHYSIOLOGY OF SALT TOLERANCE IN CROPS PLANTS investigate the processes of salinity tolerance in crops for use in selecting and breeding salinity-resistant cereal plants	B. Harvey University of Saskatchewan	ERDA Four Years 400,000	50,000

RESEARCH

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ERD-R-0108 1.1-08 HORTICULTURE DEVELOPMENT develop varieties suitable for Saskatchewan conditions and enhance horticulture production	C. Stushnoff University of Saskatchewan	ERDA Four Years 710,000	142,331
ERD-R-0121 1.3-06 COOKING QUALITY OF LENTILS examine the cooking quality of lentil varieties	R. Bhatty Sask. Pulse Crop Development Bd. Regina	ERDA Three Years 21,900	10,950
* ERD-R-0123 1.2-05 MCPA TOLERANT LENTILS develop a lentil variety resistant to MCPA herbicide	A. Slinkard Sask. Pulse Crop Development Bd. Regina	ERDA Four Years 15,000	2,500
ADF-R-0129 RESPONSES OF DIAMONDBACK MOTHS, PLUTELLA XYLBSTELLA (L.) AND OTHER INSECT PESTS TO VOLATILE COMPOUNDS OF CRUCIFEROUS CROPS provide information to plant breeders and genetic engineers which is useful in the development of varieties of cruciferous crops resistant to insect attack, and develop novel methods for insect pest population and control	C. Gillott University of Saskatchewan	ADF Three Years 75,000	20,000
ERD-R-0131 1.1-11 SELECTION AND EVALUATION OF IMPROVED HIGH YIELDING SPRING WHEAT WITH SOFT WHITE AND TRIPLE M QUALITIES support for breeding work	L. Song Saskatchewan Wheat Pool Saskatoon	ERDA Four Years 201,050	39,050
* ADF-R-0131 GRASSHOPPER PESTICIDES FOR USE ON LENTILS collect pesticide residue data to support Minor Use registrations for malathion, carbofuran, chlorpyrifos and deltamethrin	A. Slinkard Saskatchewan Pulse Crop Cevelopment Board Regina	ADF One Year 4,050	1,500
ERD-R-0137 1.3-09 PHOSPHORUS PLACEMENT AND ROW SPACING IN FIELD PEAS examine how field pea yields are affected by different placement/spacing combinations on various soil types	T. Wright Sask. Pulse Crop Development Bd. Regina	ERDA Three Years 15,000	7,500

RESEARCH

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* ERD-R-0138 3.1-08 HERBICIDE STRESS ON SYMBIOSIS IN PEAS AND LENTILS develop herbicide-tolerant rhizobium strains for field peas and lentils that are effective nitrogen fixers under herbicide stress, and assess the occurrence of mycorrhizal symbiosis	J. Germida Sask. Pulse Crop Development Bd. Regina	ERDA Three Years 10,550	2,800
* ADF-R-0156 FACTORS AFFECTING COOKING QUALITY OF SASKATCHEWAN GROWN LENTILS identify factors responsible for wide variations observed in the cooking quality of lentils grown in Saskatchewan	R. Bhatty University of Saskatchewan	ADF Two Years 44,000	15,000
ADF-R-0170 HYBRID CANOLA AGRONOMY RESEARCH AND EXTENSION encourage and coordinate hybrid agronomic research being done by private companies and public agencies	E. Bendig Sask. Canola Growers Association Saskatoon	ADF Three Years 60,000	30,000
ADF-R-0171 STUDIES ON RESISTANCE IN WHEAT TO SEPTORIA NODORUM BLOTCH AND TAN SPOT provide the basis for developing wheat varieties resistant to Septoria nodorum blotch and tan spot caused by Pyrenophora triticirepentis	G. Hughes University of Saskatchewan	ADF Four Years 204,971	65,985
ADF-R-0172 BREEDING FOR RESISTANCE TO LEAF RUST IN DURUM WHEAT obtain information about the inheritance of leaf rust resistance in wheat, identify new sources of resistance and produce good combinations of resistance for use in durum breeding programs	D. Knott University of Saskatchewan	ADF Four Years 59,160	40,100
ADF-R-0180 MANAGEMENT OF ORGANIC SOILS investigate crop production on organic soils with particular emphasis on soil fertility and tillage practices	W. Head Head Consulting Nipawin	ADF Three Years 71,724	25,000

RESEARCH

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ADF-R-0185 THE BIOLOGICAL CONTROL OF LEAFY SPURGE determine the host range and acceptability for introduction of that which occurs on leafy spurge on the USSR Steppes	P. Harris Commonwealth Inst. of Biolog. Control Switzerland	ADF Three Years 120,000	70,000
ADF-R-0187 SOIL FERTILITY REQUIREMENTS FOR OPTIMUM ALFALFA SEED PRODUCTION develop sound soil fertility recommendations for optimum alfalfa seed production and quality	W. Weighill Saskatchewan Alfalfa Seed Producers Prince Albert	ADF Four Years 45,000	13,750
ADF-R-0198 INCREASING FORAGE SEED PRODUCTION WITH FERTILIZER determine optimum combination and timing of application of fertilizer to maximize profits of forage seed production; determine effect of row spaces and age of stand; evaluate effectivness of fertilizer on certain forages	K. Stoner Newfield Seeds Ltd. Nipawin	ADF Three Years 75,150	14,050
* ADF-R-0215 DEVELOPMENT OF NATIVE LEGUME GLYCYRRHIZA LEPIDOTA AS A POTENTIAL SOIL RECLAMATION AND FORAGE CROP determine the feasibility of domesticating wild licorice as a multipurpose crop with forage, soil stabilization and saline-site reclamation potential	A. Walther University of Regina Regina	ADF Two Years 8,950	2,730
ADF-R-0220 COST EFFECTIVE WEED CONTROL determine the effect of drop size/carrier rate treatments on chemical efficacy for two growth stages for six herbicides	H. McEwan Western Canadian Wheat Growers Assoc. Regina	ADF One Year 30,000	30,000
ADF-R-0221 LAND USE CHANGE AND SOIL CONSERVATION IN SOUTHWESTERN SASKATCHEWAN identify the causes, extent and impacts to soil of crop production on marginal farm land in the Swift Current Region in Southwestern Saskatchewan	D. Sauchyn Southwest Reg. Agricultural Council Gull Lake	ADF Two Years 38,872	10,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0224 PHYSIOLOGICAL BASIS FOR SUPERIORITY OF POTATO SEED TUBERS PRODUCED IN THE NORTHERN LATITUDES critically test the hypothesis that Northern Vigor is responsible for increased needs; study plant development and physiology; develop a protocol for using in vitro technique	E. Vermette Sask. Vegetable Growers Assoc. Yorkton	ADF One Year 43,100	30,000
ADF-R-0227 REGIONAL TESTING OF GRAIN VARIETIES FOR SASKATCHEWAN obtain data on performance of licensed spring grain varieties under soil and climatic conditions, on selected experimental lines for possible licensing; develop lists and grow prelicensing trials for grain crops	B. Harvey University of Saskatchewan	ADF Three Years 593,700	336,430
ADF-R-0231 CHEMICAL CONTROL OF SEEDLING DAMPING-OFF AND ROOT ROT IN CANOLA BY RHIZOCTONIA conduct study towards chemical control of Rhizoctonia root rot complex in canola	P. Verma Agriculture Canada Saskatoon	ADF Three Years 11,340	5,000
ADF-R-0244 A COMPARISON OF THREE WEED MANAGEMENT SYSTEMS IN SPRING WHEAT evaluate three weed management systems on weed pressure, weed populations and crop yield in a wheat production system and determine cost-benefit ratios for the use of herbicides in comparison to non-chemical weed control methods	F. Holm University of Saskatchewan	ADF Two Years 78,000	64,000
* ERD-R-0245 1.3-11 STARTER NITROGEN AND RHIZOBIAL STRAIN INTERACTION IN LENTILS under Saskatchewan conditions, determine if and when an economic response to starter nitrogen can be expected for lentils	D. Jaques Sask. Pulse Crop Development Bd. Regina	ERDA Three Years 7,030	4,030

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-R-0246 1.3-12 DRYING AND VENTILATION OF LENTILS arrive at a relationship between airflow rate and pressure drop in bulk drying and ventilation of lentils, determine optimum airflow rate for natural drying, and recommend maximum safe temperature for heated air drying	D. Jaques Sask. Pulse Crop Development Bd. Regina	ERDA Three Years 17,950	11,950
ADF-R-0254 ALTERNATE AND SPECIAL CROPS develop new crops for Saskatchewan	B. Harvey University of Saskatchewan	ADF Three Years 944,200	545,480
ADF-R-0255 SPRING WHEAT develop new cultivars of hard red spring, durum prairie spring and soft white spring wheats which are early maturing, strong strawed, high yielding, disease resistant and have good quality	B. Harvey University of Saskatchewan	ADF Two Years 461,560	402,661
ADF-R-0256 BARLEY AND OATS develop new cultivars of barley which are early maturing, high yielding, strong strawed and resistant to shattering and disease	B. Harvey University of Saskatchewan	ADF Three Years 601,570	347,523
ADF-R-0257 WINTER CEREALS conduct research into agronomic practices which maximize winter survival and yield of winter wheat and rye	B. Harvey University of Saskatchewan	ADF Three Years 580,750	333,825
ADF-R-0258 BIOTECHNOLOGY, GENETICS AND PHYSIOLOGY develop methods for plant tissue culture and regeneration	B. Harvey University of Saskatchewan	ADF Three Years 763,290	436,131
ADF-R-0259 TILLAGE AND AGRONOMY develop soil conservation practices which will maximize returns to Saskatchewan producers	B. Harvey University of Saskatchewan	ADF Three Years 558,750	320,225
ADF-R-0260 WEED CONTROL develop innovative practical techniques for reduced cost weed control	B. Harvey University of Saskatchewan	ADF Three Years 525,700	300,730

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0268 NATIVE FRUIT DEVELOPMENT select and establish a wide genetic base of wild existing cultivars	C. Stushnoff University of Saskatchewan	ADF One Year 150,000	85,000
ADF-R-0280 DETERMINATION OF THE EFFECTS OF CONVENTIONAL AND ULTRA-SMALL DROPS ON THE DEPOSIT OF FUNGICIDE ON CANOLA determine the effect on fungicide efficacy and coverage of ultra-small drops compared to conventional drops, 80 degree and 110 degree tips	B. Rogers Rogers Engineering Inc. Saskatoon	ADF Two Years 45,000	40,000
ADF-R-0283 AN INVESTIGATION IN FLAX INTO THE MODIFICATION OF INHERITED CHARACTERS INDUCED BY SOMOCLONAL VARIATION AND PLASMID INSERTION evaluate the usefulness of somaclonal variation and plasmid insertion in variety development	S. Baker Flax Council of Canada Winnipeg	ADF Three Years 24,000	12,000
ADF-R-0284 EFFECTS OF STRESS ON THE YIELD AND QUALITY OF FLAX determine how much genetic variability exists in flax plants for tolerance to low temperature, germination, frost chilling and heat	S. Baker Flax Council of Canada Winnipeg	ADF Three Years 29,700	14,850
* ADF-R-0297 INVESTIGATION OF THE FEASIBILITY OF COLLECTION, DENSIFICATION, STORAGE, TRANSPORTATION AND MARKETING OF AGRICULTURAL BIOMASS investigate the technical knowns and unknowns and the related costs of collection, densification and marketing of agricultural biomass	D. Grier Saskatchewan Research Council Saskatoon	ADF Two Years 54,125	54,125
ADF-R-0302 GOLDEN FLAX SEED BREEDING develop, by plant breeding, a yellow-seeded (golden) variety of flax that has yields similar to brown-seeded varieties, McGregor and Norlin	T. Jackson Tom Jackson Farms Fort Qu'Appelle	ADF Three Years 82,836	16,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0303 OPTIMIZING A TISSUE CULTURE SYSTEM TO PRODUCE DISEASE-FREE NUCLEAR STOCK FOR POTATO SEED test and develop several procedures for rapid production of disease-free potato cultivars and develop a tissue culture based seed production model	E. Vermette Saskatchewan Vegetable Growers Association Yorkton	ADF Two Years 39,463	15,000
ADF-R-0309 DEVELOPMENT OF TECHNIQUES AND STRATEGIES TO SELECT FOR GRAIN YIELD, PROTEIN CONTENT AND KERNEL HARDNESS IN WHEAT USING NEAR INFRARED SPECTROSCOP develop and evaluate calibration constants for a near infrared reflectance spectrophotometer, formulate selection strategy and implement evaluation and selection strategies	T. McCaig Agriculture Canada Swift Current	ADF Two Years 20,000	15,000
ERD-R-0315 1.1-14 EVALUATION AND DEVELOPMENT OF DESICCANTS FOR LENTIL PRODUCTION evaluate all available desiccants and determine the effect of ammonium sulfate fertilizer on their activity and generate sufficient data to support the registration of at least one desiccant for use in the production of lentils	K. Kirkland Sask. Pulse Crop Development Bd. Regina	ERDA Two Years 20,000	9,000
ADF-R-0316 DROUGHT PROOFING OF CATTLE FEED SUPPLIES WITH KOCHIA develop reliable methods to plant, fertilize, harvest and feed kochia grown on saline and non-saline soils by studying several aspects	D. Marin Western Canada Kochia Association Saskatoon	ADF Three Years 91,300	30,000
ERD-R-0316 1.1-15 SULFUR FERTILIZER RESPONSE ON FIELD PEAS determine the effect of sulfate fertilizer on the growth and yield of century field peas	J. Ferrie Sask. Pulse Crop Development Bd. Regina	ERDA Two Years 8,000	6,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-R-0317 1.2-09 MYCOSPHAERELLA BLIGHT OF FIELD PEAS determine the severity and distribution of blight and other diseases in NE Sask. and relationship to weather conditions and growth stage; evaluate variety resistence and fungicide effectiveness	W. Berkenkamp Sask. Pulse Crop Development Bd. Regina	ERDA One Year 5,000	3,000
* ERD-R-0319 1.2-10 THE LESSER CLOVER LEAF WEEVIL, HYPERA NIGRIROSTRIS: ECOLOGY AND CONTROL IN RED CLOVER SEED CROPS study life stages of the weevi and assess the damage to the red clover crop and determine natural, cultural and chemical control agents	C. Gillott University of Saskatchewan	ERDA One Year 4,980	4,980
ERD-R-0321 1.1-16 RED COTYLEDON PROJECT develop a red cotyledon lentil similar in yield and performance to the yellow cotyledon variety Eston	A. Slinkard Sask. Pulse Crop Development Bd.	ERDA One Year 13,500	12,000
ERD-R-0322 1.1-17 STABILITY OF GLA AND EPA UNDER MODEL AND COMMERCIAL STORAGE CONDITIONS study the effect of the distribution of polyunsaturated fatty acids on the oxidation rates of triglycerides and incorporate the beneficial nutritional properties of EPA and DHA into commonly used dietary products	A. McCurdy University of Saskatchewan	ERDA Two Years 10,000	6,000
ERD-R-0324 1.1-19 EVALUATION OF LATHYRUS (GRASS PEAS) UNDER MOISTURE LIMITING CONDITIONS evaluate agronomic potential of low neurotoxin lines of Lathyrus sativus as a drought resistant pulse crop	A. Slinkard Sask. Pulse Crop Development Bd.	ERDA Two Years 6,900	5,000
* ERD-R-0326 1.1-18 SCREENING OF DURUM WHEAT AND WILD EMMER WHEAT GERMPLASM FOR DROUGHT TOLERANCE evaluate and characterize the germplasm of durum wheat and its immediate evolutionary progenitor, wild emmer wheat, for drought tolerance	S. Jana University of Saskatchewan	ERDA One Year 31,500	31,500

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0378 DOWNY BROME CONTROL STRATEGIES FOR SOUTHERN SASKATCHEWAN provide farmers with techniques and methodologies for the successful management and containment of downy brome in the Southwest Region	S. Halyung District #10 Agricultural Board Robsart	ADF Three Years 250,000	50,000
ERD-R-0382 1.1-20 UTILIZATION OF WILD LENTILS IN LENTIL BREEDING explore the possibility of transferring useful genes from wild to cultivated lentil species	G. Scoles Sask. Pulse Crop Development Bd.	ERDA Two Years 13,600	5,000
ADF-R-0385 ENVIRONMENTALLY AND COST-EFFECTIVE APPLICATIONS OF GLYPHOSATE IN CHEM FALLOW determine if multiple applications of reduced rates of glyphosate applied with mist-sized drops with 10 L/ha carrier will control perennial weeds in a chem fallow field	B. Rogers Rogers Engineering Inc. Saskatoon	ADF Three Years 70,000	30,000
ADF-R-0394 EPIDEMIOLOGY AND MANAGEMENT OF SCLEROTINIA AND BLACKLEG OF CANOLA improve chemical control of sclerotinia by studying new fungicides and methods of making low doses and low volume applications effective	R. Morrall University of Saskatchewan	ADF Four Years 277,000	50,000
ADF-R-0401 BIOLOGICAL CONTROL OF THE RUSSIAN WHEAT APHID IS SASKATCHEWAN institute a biological control program for Russian Wheat Aphid in Saskatchewan	J. Doane Agriculture Canada Saskatoon	ADF Two Years 82,110	25,000
ADF-R-0403 DISTRIBUTION, DAMAGE, MONITORING AND FACTORS WHICH INFLUENCE THE PEST STATUS OF THE RUSSIAN WHEAT APHID IN SASKATCHEWAN determine the occurrence and distribution of the Russian Wheat Aphid and evaluate factors influencing its status as a pest	O. Olfert Agriculture Canada Saskatoon	ADF Three Years 72,050	30,000

RESEARCH

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ERD-R-0409 1.2-11 BIOCHEMICAL ANALYSIS FOR IDENTIFICATION OF PLANT PATHOGENS IN BIOLOGICAL CONTROL OF WEEDS develop an accurate, relatively quick and easy technique that can be used in identification of plant pathogens in biological control of weeds	R. Zacharuk University of Regina Regina	ERDA Two Years 40,000	40,000
ADF-R-0412 FACTORS AFFECTING THE REDUCED RATES/VOLUMES, EFFICACY AND DRIFT OF HERBICIDES evaluate the effect of environmental factors and plant stress on the efficacy of reduced rates and volumes of herbicides using farm-size field sprayers	R. Grover Agriculture Canada Regina	ADF Three Years 262,500	80,000
ERD-R-0416 1.1-22 THE DEVELOPMENT OF AN EDIBLE OIL FLAX VARIETY FOR SASKATCHEWAN develop a variety of edible oil flax containing less than five per cent linolenic acid that is adapted to Saskatchewan and that has a yellow seed to make it visually distinguishable from industrial flax seed	G. Rowland University of Saskatchewan	ERDA One Year 69,520	35,000
ADF-R-0419 DEVELOPMENT OF ASCOCHYTA RESISTANT LENTIL CULTIVARS incorporate this more effective level of ascochyta blight resistance into cultivars adapted to Saskatchewan including development of an ascochyta blight-resistant Laird-type lentils	A. Slinkard University of Saskatchewan	ADF Four Years 141,000	25,000
ADF-R-0420 EVALUATION OF DESI CHICK PEA AS A NEW PULSE CROP FOR SASKATCHEWAN evaluate the potential of Desi Chick Pea as an alternative crop for production in the low rainfall areas of Saskatchewan	A. Slinkard University of Saskatchewan	ADF Three Years 15,150	8,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-R-0423 1.2-12 WHERE DOES ASCOCHYTA BLIGHT OF LENTIL COME FROM? conduct a survey of lentil crops and study the effects on disease gradients; repeat 1988 tests on epidemiological consequences of planting seed with different levels of ascochyta infection	D. Jaques Sask. Pulse Crop Development Bd. Regina	ERDA Two Years 7,250	3,500
ADF-R-0424 LEAFCUTTER BEE PRODUCTIVITY - A COMPARISON OF NESTING MATERIAL develop information regarding the advantages and disadvantages of each nest type in order that new and existing producers can make an informed decision when investing in equipment	D. Geitz Saskatchewan Alfalfa Seed Producers Birch Hills	ADF Two Years 23,600	8,000
ADF-R-0427 SELECTION, COMPETITION AND SURVIVAL OF RHIZOBIAL STRAINS OF PEAS AND LENTILS IN SASKATCHEWAN select superior rhizobial strains for peas and determine the competitiveness and survival of introduced rhizobia and supply Saskatchewan farmers with an improved innoculant	C. Van Kessel University of Saskatchewan	ADF No Budget 0	51,290
ADF-R-0428 SOIL AND WATER CONSERVATION FOR PROFIT: DEVELOPMENT OF ADAPTED WINTER WHEAT CULTIVARS AND MANAGEMENT SYSTEMS FOR SASKATCHEWAN identify and register CDC winter wheat breeding lines with regional adaption and determine the feasibility of aerial seeding of winter cereals in the Parkland Region of Saskatchewan	B. Harvey University of Saskatchewan	ADF Four Years 315,000	35,000
ADF-R-0429 SOIL AND WATER CONSERVATION FOR PROFIT: IMPROVEMENT IN COLD TOLERANCE, QUALITY AND PEST RESISTANCE OF WINTER CEREALS idenfity rye and crested wheat chromosomes carrying elite cold hardiness, Russian wheat aphid tolerance and disease resistance for substitution into winter wheat	B. Harvey University of Saskatchewan	ADF Four Years 374,925	40,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0454 REGISTRATION OF MALATHION AND DECIS FOR USE ON SASKATOONS obtain the registration of Malathion and Decis as insecticides for use on Saskatoons under the Minor Use of Pesticides Program	R. Flaman Saskatchewan Fruit Growers Association Edenwold	ADF One Year 17,840	10,400
EXTENSION			
* ERD-R-0439 5.2-26 REVITALIZATION OF AGRICULTURAL SOCIETIES - IMPLEMENTATION PHASE develop a portfolio of information to increase the awareness of SAASF in rural and urban communities, in government and in agribusiness; use material to assist agr. societies to become an important part of the community	J. Reimer Sask. Assoc. of Agr. Societies & Exhib.	ERDA One Year 9,534	7,534
PROCESSING			
* ADF-R-0026 FINE GRINDING AND AIR CLASSIFICATION OF CLEARS FROM HRS FLOUR MILLING INTO WHEAT PROTEIN CONCENTRATE AND A BAKERS FLOUR develop procedures for fine grinding coarse flours into protein, starch and cell wall components, and separate high protein concentrate for use as a gluten substitute	F. Sosulski University of Saskatchewan	ADF Three Years 103,320	17,220
* SAR-R-0055 STABILITY OF GLA AND EPA UNDER MODEL AND COMMERCIAL STORAGE CONDITIONS elucidate the oxidation rate of products of eicosapentanoic and gamma linolenic acids	A. McCurdy University of Saskatchewan	SARF One Year 5,000	500
ADF-R-0293 NOVEL IMPROVEMENTS IN PRODUCTION OF ALCOHOLS FROM SURPLUS GRAINS apply biotechnological discoveries made to date to the commercial production of fuel alcohol from surplus grains and to the use of industrial enzymes for conversion of surplus grain starch to a variety of alcohols	W. Ingledew University of Saskatchewan	ADF Two Years 73,200	61,600

RESEARCH

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ADF-R-0318 PROCESS DEVELOPMENT FOR ODORLESS THERAPEUTIC GARLIC PRODUCTS develop an industrial process to produce therapeutically potent and odorless garlic products	Y. Ourisu-Anash Protein, Oil and Starch (POS) Saskatoon	ADF One Year 40,000	20,000
ADF-R-0384 PROCESSING OF DISTILLERS DRIED SOLUBLES INTO DIETARY FIBRE AND PROTEIN RICH INGREDIENTS FOR FOOD APPLICATIONS produce food grade ingredients by separating fibre and protein controlled drying in the presence of antioxidents and flavour removal	F. Sosulski University of Saskatchewan	ADF Three Years 59,400	20,000
ERD-R-0451 5.2-28 STUDY OF FOOD PROCESSING IN SASKATCHEWAN identify and assess new food processing/packaging opportunities in Saskatchewan; review possible processing of crops grown on small scale and study the economics of establishing processing facilities	B. Miller Wellington Foods Inc. Saskatoon	ERDA One Year 42,175	10,000
NEW PRODUCT DEVELOPMENT			
* ADF-R-0016 WILD RICE RESEARCH IN SASKATCHEWAN conduct a comprehensive research program in the areas of production, pest management, engineering, processing and marketing to meet the technical needs of the rapidly developing Saskatchewan wild rice industry	B. Harvey University of Saskatchewan	ADF Three Years 664,521	112,215
* ADF-R-0301 LIGNOCELLULOSE DEGRADING ENZYMES FROM SOLID-STATE FERMENTATION OF STRAW WITH PLEUROTUS FUNGI AND THEIR INDUSTRIAL APPLICATIONS develop methods of extraction from spent substrates after production of Pleurotus mushrooms and characterize specific activities of enzymes extracted from spent substrates of other strains	K. Sosulski Saskatchewan Research Council Saskatoon	ADF One Year 30,000	25,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0306 EVALUATION OF YIELD QUALITY AND HERBICIDAL RESIDUE WHEN GLYPHOSATE IS APPLIED PREHARVEST ON CERTAIN CROPS evaluate the optimum time of application as well as verify the presence or absence of glyphosate residue in seed and in straw on certain crops, starting when the seed is approximately 50 per cent moisture	K. Goudy Focus on Inputs Association Inc. Melfort	ADF Three Years 292,000	150,000
ERD-R-0411 1.4-27 LINEN PROJECT - PHASE I apply skills of Saskatchewan spinners and weavers to test the quality of the linen flax crops in order to promote the development of a Saskatchewan linen industry	S. Risk - Regina	ERDA One Year 551	551
ADF-R-0455 WILD RICE RESEARCH investigate sediment redox potentials in order to better evaluate this parameter as an indicator of site potential for wild rice and determine the causes of poor seed set in wild rice and continue a harvester efficiency study	O. Archibold University of Saskatchewan	ADF One Year 100,000	40,000
MARKETING			
ERD-R-0386 2.6-12 MARKETING OF SASKATCHEWAN MANUFACTURED MILK-BASED INFANT FORMULA AND ADULT MEAL REPLACEMENT PRODUCTS determine the market and technical feasibility of a Dairy Producers product diversification into a range of milk-based infant formula and adult enteral meal replacement products	G. Pedersen Dairy Producers Cooperative Ltd. Regina	ERDA Two Years 50,000	30,125
ERD-R-0413 1.4-29 PILOT HAY CERTIFICATE PROJECT have a descriptive method for grading forage for commercial sale	R. McGillivray Saskatchewan Forage Council Inc. Regina	ERDA Two Years 30,000	20,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
SOILS			
* ADF-R-0015 CRITICAL EVALUATION OF SUBSOILING TILLAGE IN THE NORTHERN GRAIN BELT study and evaluate subsoiling tillage practices in terms of effect of crop production, water use and soil structure	E. Wells Ag. Ext. District Board No. 26 Saskatoon	ADF Two Years 40,000	5,000
* SAR-R-0037 MINERALOGY, MORPHOLOGY AND DYNAMICS OF SALTS IN AGRICULTURAL SOILS identify minerals and their associates and investigate origins of salts to provide information for saline soil reclamation	L. Henry University of Saskatchewan	SARF One Year 33,000	1,600
* SAR-R-0038 DETERMINATION OF TRIFLURALIN HERBICIDE CARRYOVER LEVELS IN SOILS examine whether an inexpensive bioassay procedure for trifluralin herbicides determines total soil content of the chemical or whether a more expensive analysis is necessary	R. McKercher University of Saskatchewan	SARF One Year 39,000	1,900
* SAR-R-0063 THE EFFECT OF LONG-TERM ROTATIONS ON THE ACTIVE FRACTION OF ORGANIC MATTER AND SOIL TILTH evaluate effects of cropping systems on nutrient-supplying capabilities of soil organic matter	D. Anderson University of Saskatchewan	SARF One Year 14,500	2,900
* ERD-R-0151 3.1-03 SOIL SURVEY complete a soil resource database for Saskatchewan which can be used to improve soil conservation efforts in the province	D. Acton University of Saskatchewan	ERDA Four Years 1,000,000	250,000
* ERD-R-0152 3.1-04 SOIL FERTILITY - SULFUR AND MICRONUTRIENTS determine soil and plant needs for sulfur and other micronutrients by developing an improved soil test for sulfur	D. Tomasiewicz University of Saskatchewan	ERDA Four Years 258,792	40,292

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-R-0158 3.1-06 EXTENDED CROP ROTATIONS AND CONSERVATION TILLAGE PROJECT demonstrate the profitability of extended rotations and the value of conservation tillage	B. Kennedy Hoechst Canada Ltd. Regina	ERDA Four Years 410,675	68,450
ERD-R-0161 3.2-03 SNOW MANAGEMENT AND MELTWATER ENHANCEMENT study the benefits of snow management and meltwater infiltration	W. Nicholaichuk National Hydrology Research Institute (NHRI) Saskatoon	ERDA Four Years 405,000	135,000
ADF-R-0225 SASKATCHEWAN SOIL SURVEY complete a survey of all soil types in the province	J. Stewart University of Saskatchewan	ADF Three Years 1,186,320	392,610
ADF-R-0226 MAXIMIZING SOIL PRODUCTION complete studies on maximizing crop productivity and maintaining high soil quality through implementation of water efficient farming systems	J. Stewart University of Saskatchewan	ADF Three Years 930,000	527,000
ADF-R-0250 FIELD MONITORING OF DEEP RIPPING AT 12 FARM LOCATIONS IN SASKATCHEWAN monitor crop and soil conditions that have been altered due to deep ripping	M. Grevers University of Saskatchewan	ADF Two Years 21,100	18,000
ADF-R-0251 SOIL CONSERVATION document the processes involved in organic matter formation and stability in Saskatchewan soils under a variety of current and potential soil conservation farming practices	J. Stewart University of Saskatchewan	ADF Three Years 305,000	173,500
ADF-R-0252 SOIL FERTILITY determine the fertilizer requirements for grains and grain legumes in dryland cropping systems in Saskatchewan and ensure that these recommendations are incorporated with soil test fertilizer recommendations	J. Stewart University of Saskatchewan	ADF Three Years 305,000	173,500

RESEARCH

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ADF-R-0253 WATER EFFICIENCY AND SOIL PHYSICAL PROPERTIES investigate and develop on-farm management techniques which improve water and fertilizer use and efficiency to insure maximum yield under all conditions	J. Stewart University of Saskatchewan	ADF Three Years 305,000	173,500
ERD-R-0328 3.1-11 MATERIALS DATABASE FOR TILLAGE TOOLS select and evaluate a range of materials for tillage tools and create a database for material selection for different soil conditions	S. Bhole University of Regina Regina	ERDA One Year 12,500	9,000
* ERD-R-0329 3.1-12 THE EFFECT OF LONG-TERM ROTATIONS ON THE ACTIVE FRACTION OF ORGANIC MATTER AND SOIL TILTH evaluate the effects of cropping systems that include various frequencies of summerfallow, cereal cropping and forages on the nutrient-supplying capabilities of soil organic matter and on the aggregation or tilth of soils	D. Anderson University of Saskatchewan	ERDA Two Years 17,545	17,545
ERD-R-0332 3.1-14 OCCURRENCE AND SIGNIFICANCE OF VAM MYCORRHIZAL SYMBIOSIS IN SASKATCHEWAN FIELD CROPS survey the distribution of VAM; identify management practices which encourage effective symbiotic relationships between indigenous VAM and susceptible crops; identify mycorrhizal innoculants which will benefit crop growth	J. Germida University of Saskatchewan	ERDA Three Years 93,050	70,000
ADF-R-0395 DEVELOPMENT OF QUARTER-SECTION DATABASE FOR LAND USE AND MANAGEMENT DECISION MAKING develop a quarter-section soil and land capability database which will provide an electronic link between legal survey locations and soil polygons of the most recent soil surveys	J. Stewart University of Saskatchewan	ADF Two Years 94,100	35,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
OTHER			
AEB-R-0002 INTERNATIONAL WHEAT GROWERS EXPORT organize an international grains symposium	W. Duke Western Canadian Wheat Growers Association Regina	One Year 36,285	11,285
AEB-R-0003 TRIPARTITE HONEY hire a consultant on a contractual basis to represent Saskatchewan Honey Produders at meetings rearding a tripartite honey stabilization program	A. Tremblay - Regina	One Year 2,000	872
AEB-R-0004 DAIRY STUDY set up and coordinate the collection and analysis of information on the cost of production for fluid milk using actual farm data	S. Barber Milk Control Board -	One Year 82,000	22,000
AEB-R-0005 RED MEAT IMPACT STUDY study the impact of government programs on red meat production	Intercombio Ltd. - Guelph	One Year 9,220	1,170
AEB-R-0006 FEEDER TO FINISH MARKET INSURANCE PROGRAM undertake a study of the feeder to finish market insurance programs to determine how it could be operated in an actuarially sound basis in the future	H. Furtan University of Saskatchewan	One Year 2,371	2,371
AEB-R-0007 RECORDING LAND SALES record farm land transportation information	B. Gaffney B. Gaffney and Associates Regina	One Year 20,500	10,250
AEB-R-0008 FARM INPUT PRICE SURVEY take a survey regarding the level of variability of farm input prices between products and locations	J. Spriggs University of Saskatchewan	One Year 271,727	26,727
AEB-R-0009 WESTBRIDGE COMPUTER provide analyst services for the LTC and FALG programs in the areas of systems support, maintenance and enhancements	D. Morris Westbridge Computer Corporation Saskatoon	One Year 2,600	2,600

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AEB-R-0010 SEMINARS: SETTLER COMPUTER TECHNOLOGY promote a better understanding of computer technology and farm business management	Settler Computer Technology - Regina	 One Year 10,000	10,000
AEB-R-0011 TOP MANAGEMENT COMPUTER MODEL give training courses to improve computer management techniques for farmers	R. Wallace - -	 One Year 133,846	53,846
AEB-R-0012 GOVERNMENT RESEARCH CORPORATION analyze issues of importance in the GATT negotiations and other economic policy issues	Government Research Corporation - -	 One Year 73,800	9,400
AEB-R-0013 EQUITY FINANCE PILOT PROJECT undertake activities leading to the development of a proposal for a pilot equity finance project	R. Dyck Plains Agricultural Services Ltd. Weyburn	 One Year 11,800	11,800
AEB-R-0014 EQUITY FINANCE undertake activities leading to the development of a proposal for a pilot equity finance project	R. Dyck Plains Agricultural Services Ltd. Weyburn	 One Year 35,990	35,990
AEB-R-0015 EQUITY FINANCING IN SASKATCHEWAN AGRICULTURE develop an equity financing structure for use in Saskatchewan	Synergos Capital Management Inc. - Saskatoon	 One Year 37,500	21,173
* ADF-R-0163 ALGAE CONTROL IN FARM PONDS increase the understanding of the interactions between environmental factors, management practices and nusiance algal blooms in Saskatchewan farm ponds	S. Swanson Saskatchewan Research Council Saskatoon	ADF One Year 69,044	19,839
* ERD-R-0205 5.2-14 WOMEN IN LOCAL DECISION MAKING assist farm women in networking and developing an awareness of opportunities and services	G. Joyce University of Saskatchewan	ERDA One Year 6,471	1,471

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-R-0241 ALGAE CONTROL IN PONDS devise effective practical treatment strategies for control of algae in farm ponds	S. Swanson Saskatchewan Research Council Saskatoon	ADF Two Years 97,341	62,341
ADF-R-0267 BIOINSECTICIDES identify, clone and express pathogenic and degradative genes in suitable microbial systems specific for combatting grasshoppers	C. Khachatourians University of Saskatchewan	ADF Two Years 400,000	340,000
ADF-R-0271 OFFICE OF UNIVERSITY COORDINATOR OF AGRICULTURAL RESEARCH coordinate agricultural research with the University of Saskatchewan, SDA, other government agencies and private industry	G. Lee University of Saskatchewan	ADF Three Years 205,200	152,240
* ERD-R-0275 5.1-14 AN INVESTIGATION INTO THE MACHINERY MODIFICATION DESIGNED AND USED BY SASKATCHEWAN FARMERS WITH PHYSICAL DISABILITIES produce an inventory of machinery modifications and aids used by Saskatchewan farmers with physical disabilities	R. Elian Saskatchewan Abilities Council Saskatoon	ERDA Two Years 25,870	2,870
ERD-R-0279 5.2-19 DEVELOPMENT OF A MODEL FARM FAMILY SELF-HELP SUPPORT PROGRAM maximize the effectiveness of the limited health and mental health resources in rural areas	D. Fischer University of Saskatchewan	ERDA Two Years 41,100	30,000
* ERD-R-0280 5.2-18 STRENGTHEN AND PROMOTE DOMESTIC WHEAT MARKETS increase domestic hard spring and durum wheat products so as to stimulate primary and secondary industry in Canada	B. Isman Western Canadian Wheat Growers Association Regina	ERDA One Year 12,500	12,500

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-R-0337 5.2-20 ECONOMICS OF REDUCED TILLAGE SYSTEMS IN SASKATCHEWAN develop an information package which defines the short-run economic implications of adopting alternative minimum and zero-tillage systems for summerfallow areas and for seedbed preparation	R. Zentner Agriculture Canada	ERDA Two Years 27,250	16,000
ERD-R-0338 5.2-21 ON-FARM ECONOMIC COSTS OF SOIL EROSION demonstrate to producers, scientists and policy analysts the economic benefits of conserving soil productivity under dryland conditions in the dark brown soil zone	R. Zentner Agriculture Canada	ERDA One Year 32,400	20,000
ADF-R-0379 ALGAE CONTROL IN FARM PONDS apply knowledge gained in 1987-88 to minimize algae growth in farm dugouts and produce good quality drinking water	H. Peterson Saskatchewan Research Council Saskatoon	ADF Two Years 109,976	40,000
ADF-R-0382 IMPACT OF DRIFING ALKALI DUSTS: ASSESSMENT AND RECOMMENDATIONS determine the extent and nature of suspected lung dysfunction in the residents of Mossbank and area as a result of exposure to salt dusts blowing off Old Wives Lake	J. Dosman University of Saskatchewan	ADF One Year 40,000	16,000
* ADF-R-0391 UNIVERSITY OF SASKATCHEWAN STRATEGIC RESEARCH PROGRAM EVALUATION - PHASE I evaluate the strategic research program	T. Bryant Brystra Consultants Regina	ADF One Year 15,000	12,500
ADF-R-0421 EFFECTS OF LENTILS ON GASTRO-INTESTINAL FUNCTION, LIPID METABOLISM AND MINERAL BALANCE IN HUMAN SUBJECTS investigate effects of lentils on gastro-intestinal function	A. Stephen Saskatchewan Pulse Crop Development Board	ADF One Year 57,000	20,000

RESEARCH

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-R-0448 1.2-13 GENETICALLY ENGINEERED BIOPESTICIDE CONTROL OF INSECT INFESTATIONS demonstrate the potential of Enterobacter bacterial species genetically engineered delivery system for entomopathogenic agents in the control of insects using the grasshopper as a test system	W. Chapco University of Regina Regina	ERDA One Year 38,000	20,000
ERD-R-0452 5.2-29 COURSE DEVELOPMENT IN FEEDLOT MANAGEMENT put together a home study package which would allow feedlot workers to study while on the job	G. Hass University of Saskatchewan	ERDA One Year 15,500	7,500

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
LIVESTOCK			
MDA-V-0001 CANADIAN CATTLEMEN'S ASSOCIATION - SASKATCHEWAN DIVISION provide a grant for a Beef Information Centre	Canadian Cattlemen's Association Saskatchewan Division Regina	One Year 40,000	40,000
MDA-V-0002 1988 FIFTH ANNUAL SHORT COURSE create major educational seminars on current issues of feedlot industry	Saskatchewan Cattle Feeders Association - Saskatoon	One Year 8,402	8,402
MDA-V-0003 SASKATCHEWAN FEED GRAIN USERS provide operating expenses	Saskatchewan Feed Grain Users Association - Saskatoon	One Year 5,000	5,000
MDA-V-0004 DR. ANDREW SCHMITZ assess profitability of feed cattle in the United States	A. Schmitz - -	One Year 1,000	1,000
ERD-V-0004 2.4-10 BEEF UPGRADING MANAGEMENT PROGRAM (BUMP) produce a beef management manual for use in a pilot project that will demonstrate the value of good management systems	P. Rempel Saskatchewan Agriculture and Food [Bgina	ERDA Three Years 176,750	64,848
MDA-V-0005 MANKOTA STOCKMEN'S WEIGH COMPANY LTD. provide funding for a wash rack	Mankota Stockmen's Weigh Co. Ltd. - Mankota	One Year 5,000	5,000
ERD-V-0009 2.4-08 SWINE HERD TECHNOLOGY TRANSFER establish an educational and informational information mechanism for pork producers	J. Morris Saskatchewan Pork Producers Marketing Board Saskatoon	ERDA Three Years 180,000	45,000
ERD-V-0023 2.1-06 REPRODUCTIVE DATA COLLECTION develop a computer data collection system to monitor the reproductive status of each sector of the livestock industry	A. Hingston Saskatchewan Agriculture and Food Regina	ERDA Four Years 42,120	5,346

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-V-0025 2.4-02 LIVESTOCK FACILITY AND PASTURE MANAGEMENT provide modern livestock handling facilities at public pastures in each region	S. Lauder Saskatchewan Rural Development Regina	ERDA Three Years 108,069	10,859
HCF-V-0043 MELFORT AGRICULTURAL SOCIETY perform study on forage varieties under grazing	Melfort Agricultural Society - Melfort	HCF One Year 17,560	17,560
HCF-V-0044 CANADIAN CATTLEMEN'S ASSOCIATION provide grants for National Beef Information Centre, national advertising campaigns and operating grants	Canadian Cattlemen's Association - Toronto	HCF One Year 600,854	600,854
HCF-V-0045 MAPLE CREEK VETERINARY SERVICES DISTRICT provide contributions toward setting up an histology lab at the Maple Creek Animal Clinic	Maple Creek Veterinary Clinic - Maple Creek	HCF One Year 20,000	20,000
HCF-V-0046 CANADIAN WESTERN AGRIBITION provide grants to sponsor the 1988 Commercial Cattle Show the 1988 Feed and Forage Show	Canadian Western Agribition - Regina	HCF One Year 30,000	30,000
HCF-V-0047 SASKATOON PRAIRIE LAND EXHIBITION CORPORATION provide a grant to cover the cost of brochures and posters for the 1988 Dairy Expo	Saskatoon Prairie Land Exhibition Corporation - Saskatoon	HCF One Year 8,000	8,000
HCF-V-0048 SASKATCHEWAN HOLSTEIN BRANCH give type classification	Saskatchewan Holstein Branch - Regina	HCF One Year 4,000	4,000
HCF-V-0049 FRED WILSON provide payment to the producer for hemophilosis research	F. Wilson University of Saskatchewan	HCF One Year 538	538
ADF-V-0054 GRANT TO VIDO study of infectious diseases	S. Acres Veterinary Infectious Diseases Organization Saskatoon	ADF Four Years 1,200,000	600,000

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0056 VIDO (FELLOWSHIP) develop and apply improved serological and immunological methods of diagnosing and monitoring important infectious diseases of livestock and poultry	S. Acres Veterinary Infectious Diseases Organization Saskatoon	ADF Five Years 500,000	150,000
ERD-V-0087 2.3-07 SELF-TREATMENT INSECTICIDE STATION FOR CONTROL OF BLACK FLIES demonstrate methods of black fly control to producers and community pasture patrons	G. O'Bertos Saskatchewan Agriculture and Food Regina	ERDA Two Years 23,400	10,795
ERD-V-0211 2.4-19 SASKATCHEWAN REGIONAL SHEPHERDS' PROGRAM provide on-farm training and technical assistance in shepherd skills and flock management to new producers and establish that a regional shepherds' program would benefit the sheep industry beyond the cost of the project	J. Koal Saskatchewan Sheep and Wool Marketing Comm. Saskatoon	ERDA Two Years 32,000	15,000
* ERD-V-0231 2.6-06 ALL CANADIAN HEREFORD DISPLAY CENTRE advertise the display centre concept through visits, advertising and video promotion	S. and C. Palmer EXL Ranch Ltd. Marsden	ERDA Two Years 25,000	11,699
ADF-V-0242 EFFICACY TESTS ON BLACKFLY LARVICIDE test a boat-operated sprayer which will provide maneuverability, flexibility, precision of application and freedom from vulnerability to adverse weather conditions	D. Lemkuhl Biosystems Consulting Ltd. Saskatoon	ADF One Year 24,930	15,000
* ERD-V-0300 1.4-19 HONEY MARKETING PLAN have tenable Saskatchewan beekeepers participate in a national marketing plan which will study methods of expanding domestic and export markets for honey	D. Valleau Saskatchewan Beekeepers Association Aylsham	ERDA One Year 3,300	3,300

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-V-0308 2.6-10 THE BULLETIN publish a high quality saleable working manual and reference guide on the raising, selection and management of beef bulls for the commercial cow-calf industry	G. Hamilton Saskatchewan Livestock Association Regina	ERDA One Year 4,500	3,500
ENGINEERING			
ADF-V-0014 COMPRESSED NATURAL GAS (CNG) TESTING determine economic viability of CNG on Saskatchewan farms	M. Sulatisky Saskatchewan Research Council Saskatoon	ADF Five Years 1,109,200	124,644
ADF-V-0081 STUBBLE BENDER develop, test and refine "stubble bender" prototypes	G. Quaroni Vonda Welding and Machine Vonda	ADF Three Years 50,000	15,000
* ADF-V-0111 TESTING AND DEVELOPMENT OF A UNIVERSAL "STRIPPER" SNOW TRAP ATTACHMENT assess the results and carry out improvements required after testing and demonstrating prototype strippers, develop drawings and prepare an operating manual	M. Lloyd Bangwyn Farms Ltd. D'Arcy	ADF Two Years 30,000	5,000
* ADF-V-0160 CNG DEMONSTRATIONS extend CNG demonstrations on Saskatchewan farms	M. Sulatisky Saskatchewan Research Council Saskatoon	ADF Two Years 60,628	20,007
ADF-V-0167 MODIFICATION OF EXISTING ELECTRIC HEATERS AND CONTROL SYSTEMS modify existing electric heaters to improve their serviceability in a real swine barn environment; determine ability of a commercial elecronic thermostatic controller to provide improved temperature control	R. Ford University of Saskatchewan	ADF Two Years 29,300	10,000

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0168 THE EVALUATION OF HUMIDITY SENSORS FOR USE IN HEATING/VENTILATION CONTROLS IN LIVESTOCK HOUSING field test an experimental humidity measuring device with existing devices to determine their ability to function and retain accuracy in the dusty and corrosive atmosphere of a barn and make the necessary modifications	R. Ford University of Saskatchewan	ADF Two Years 25,300	10,000
ADF-V-0170 DEVELOPMENT OF A FARM TRACTOR FUEL EFFICIENCY AND PERFORMANCE MONITOR develop a microcomputer-based tractor monitoring system	G. Zoerb University of Saskatchewan	ADF Three Years 51,250	30,000
ADF-V-0205 PORTABLE WHEEL LOAD SCALE FOR AGRICULTURE develop a low cost but accurate and portable Wheel Load Scale for use by farmers	T. Bergan International Road Dynamics Inc. Saskatoon	ADF One Year 35,000	15,000
ADF-V-0243 DEVELOPMENT OF A VENTILATION SYSTEM TO REDUCE PNEUMONIA IN WARM CALF HOUSES develop and test air filtration system which will reduce the concentration of aerosol particles; develop an intergrated ventilation system that will prevent drafts and will be energy efficient to operate	M. Bantle Bantle Engineering Research Saskatoon	ADF Three Years 30,160	10,000
ERD-V-0420 1.3-14 EQUIPMENT INNOVATIONS FOR INNOCULATING PULSE SEEDS assess current methods and equipment used for innoculating pulse seeds as to their effectiveness, convenience and accuracy	M. Jorgenson Prairie Agricultural Machinery Institute Humboldt	ERDA One Year 16,210	8,000
IRRIGATION			
ADF-V-0021 SASKATCHEWAN IRRIGATION DEVELOPMENT CENTRE GENERAL SUPPORT SERVICES provide supplemental support services for numerous irrigation research and demonstration projects being managed by the Saskatchewan Irrigation Development Centre	L. McLean Agri-Farm Consultants Ltd. Strongfield	ADF Three Years 450,000	138,611

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-V-0067 SASKATCHEWAN WATER CORPORATION implementation of irrigation development programs	V. Fowke Saskatchewan Water Corporation Moose Jaw	ADF Four Years 3,945,000	15,000,000
* ERD-V-0162 4.2-01 IRRIGATION ASSISTANCE PROGRAM promote irrigation on Saskatchewan farms by providing financial assistance for on-farm irrigation development	G. Gross Saskatchewan Water Corporation Outlook	ERDA Five Years 4,686,150	2,124,800
ECONOMICS			
* ADF-V-0136 FORAGE SEED IMPORT REPLACEMENT identify potential export opportunities for marketing forage seed	D. Gayton Saskatchewan Agriculture and Food Regina	ADF One Year 28,000	28,000
CROPS AND FORAGES			
ADF-V-0017 DEVELOPMENT OF SOUND AGRONOMIC PRACTICES FOR ALFALFA SEED PRODUCTION develop, evaluate and promote sound integrated agronomic management techniques which will help to maximize alfalfa seed yields and pedigreed seed quality	N. Malek Saskatchewan Alfalfa Seed Producers Birch Hills	ADF Four Years 109,500	25,000
* ADF-V-0091 BORAGE AGRONOMY AND HARVESTING develop initial borage agronomy and select varieties from the mixed and weed stock available from Europe, plus develop harvesting techniques	B. Sagen Borage Growers Association Inc. Kenaston	ADF Two Years 35,340	5,340
ADF-V-0108 DEVELOPMENT OF A HAY DENSIFIER FOR MARKETING LONG FIBRE SASKATCHEWAN ALFALFA TO THE PACIFIC RIM develop a machine that will convert round hay bales to densified rectangular bales suitable for shipping to and marketing in Pacific Rim countries	G. Dalziel Love-Whitefox Forage Producers White Fox	ADF Two Years 152,000	125,000

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0157 CONSERVA PAK SEEDING TRIALS utilize the seeder to demonstrate spring seeding, evaluate the results and determine if detailed research is required to establish when tillage or a total minimum disturbance system should be used during spring seeding	J. Halford Vale Farms Ltd. Indian Head	ADF Two Years 36,000	28,800
ADF-V-0158 EVALUATION OF DRYLAND PINTO BEAN PRODUCTION evaluate early pinto bean varieties for dryland production, evaluate harvesting techniques using lentil production technology and attract commercial interest in this potential new crop	A. Vandenberg Spectrum Specialty Seeds Inc. Saskatoon	ADF Two Years 30,000	27,000
ADF-V-0187 ANNUAL FORAGE BULLETIN provide an up-to-date regionally sensitive bulletin entitled "Annual Forages for Saskatchewan" that would cover their use for both preserved feed and pasture	R. Pandalfo Saskatchewan Corn Committee Northgate	ADF One Year 4,000	3,000
ADF-V-0213 COMPARISON OF SPUN BONDED POLYESTER AND CLEAR PLASTIC TUNNELS FOR SPRING FROST PROTECTION AND GROWTH PROMOTION OF VEGETABLES compare standard polyethylene and spun bonded polyester tunnels for spring frost protection and growth promotion of cold tolerant and cold sensitive vegetable crops	D. Waterer University of Saskatchewan	ADF One Year 15,550	12,000
ADF-V-0215 PRODUCTION REQUIREMENTS OF NEW POT PLANT AND CUT FLOWER CULTIVARS FOR COOL TEMPERATURE GREENHOUSE PRODUCTION IN SASKATCHEWAN develop and illustrate the potential of new pot plant and cut flower crops for cool temperature greenhouse production in Saskatchewan	R. St. Pierre University of Saskatchewan	ADF One Year 66,000	30,000

DEVELOPMENT

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ERD-V-0383 1.1-21 DEVELOPMENT OF QUINOA AS A NEW GRAIN CROP develop recommended agronomic practices for growing quinoa	J. Kernan Saskatchewan Research Council Saskatoon	ERDA Two Years 30,000	22,000
ERD-V-0412 1.4-28 WILD FOOD HARVEST IN NORTHERN SASKATCHEWAN continue to provide an extension service for the present foraging system and expand it	K. Brunner Kalya Brunner Consulting Prince Albert	ERDA Two Years 84,900	50,000
ERD-V-0449 1.3-15 INVESTIGATION OF PNEUMATIC SEEDER PERFORMANCE FOR METERING PULSE SEEDS assess damage to pulse seeds incurred by the various types of meters and distribution manifolds on commercially available pneumatic seeders	M. Jorgenson Prairie Agricultural Machinery Institute Humboldt	ERDA One Year 19,800	10,000
EXTENSION			
* ADF-V-0061 FOOD PROCESSING EXTENSION COORDINATOR provide a Food Processing Extension Coordinator who will interface with industry, the university and government regarding the food processing industry in Saskatchewan	G. Jones University of Saskatchewan	ADF Three Years 106,058	46,058
* ADF-V-0071 BLOOD TESTING IN SASKATCHEWAN POULTRY demonstrate the use of new technology in testing poultry blood samples and the use of data obtained in improving disease control	C. Riddell University of Saskatchewan	ADF Three Years 43,286	8,286
* ADF-V-0147 SASKATCHEWAN SHEEP PRODUCTION MANUAL provide information to producers on breeds, farm management principles, facilities, nutrition, predator control, flock health and lamb processing	L. Flaig South Saskatchewan Wool Growers Association Tompkins	ADF One Year 8,380	8,380

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0156 DEVELOPMENT OF PRODUCT DIVERSIFICATION AND TRAINING IN NORTHERN FOOD, AQUACULTURE AND FUR FARMING consolidate and assess potential for diversification of northern food products currently being harvested/produced	M. McKay Saskatchewan Indian Agriculture Program Prince Albert	ADF One Year 30,686	15,000
ADF-V-0161 LALOCHE OPPORTUNITIES IN AGRICULTURE develop and implement agriculture-based initiatives to provide employment income and improved nutrition for the people of the LaLoche area	B. Woodcock New Careers Corporation Regina	ADF One Year 18,645	10,000
ADF-V-0180 BLOOD TESTING IN SASKATCHEWAN POULTRY demonstrate the use of new technology in testing poultry blood samples and use of data obtained in improving disease control	C. Riddell University of Saskatchewan	ADF One Year 19,716	14,000
ADF-V-0195 FOOD PROCESSING EXTENSION - SASKATCHEWAN FOODTALK PROGRAM extend and expand the work carried out between April 1, 1987 and March 30, 1989 under the ADF project V-86-06-0001, Food Processing Extension Coordinator	J. Russell University of Saskatchewan	ADF One Year 130,000	100,000
* ADF-V-0206 STEPPING INTO THE 90'S enable women to become knowledgeable participants in farming operations	D. Prefontaine Saskatchewan Women's Agricultural Network Saskatoon	ADF One Year 3,300	3,300
ADF-V-0208 DEVELOPMENT PROGRAM - AGRICULTURAL INSIGHT FOUNDATION	P. Hodgeman Agricultural Insight Foundation Inc. Saskatoon	ADF One Year 116,000	71,000
ADF-V-0227 ADF DATABASE maintain a shared access computer environment on which the ADF results will appear	D. Morris/K. Kelly Westbridge Computer Corporation Regina	ADF One Year 90,000	28,652

DEVELOPMENT

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ADF-V-0238 SASKATCHEWAN RESOURCE SERIES develop an educational program between the agriculture industry and Saskatchewan education consisting of produced written and video supplementary teaching activities for all Saskatchewan elementary schools	C. Donnelly Sunspirit Productions Regina	ADF One Year 10,000	3,333
* ADF-V-0246 CANOLA PRODUCTIVITY CENTRES PART OF BLUEPRINT FOR THE 90'S learn how to set up and manage Canola Productivity Centres	N. Underwood Canola Council of Canada Winnipeg	ADF One Year 2,000	1,600
ADF-V-0258 CELEBRATIONS 90 promote education and create public awareness of the advances in technology transfer	D. Wieler Future Corporation	ADF One Year 300,000	150,000
ERD-V-0385 1.4-23 DEVELOPMENT OF AN INTEGRATED GRAIN PROCESSING FACILITY IN THE LAKE DIEFENBAKER AREA study the feasibility of establishing a grain processing facility through a market study, production strategy, i.d. of joint venture partners/technolgy suppliers, pre-investment analysis and development of a financing proposal	D. Scott WAI Holdings Inc. Regina	ERDA One Year 74,000	43,500
* ERD-V-0438 5.2-25 NORTHERN ECONOMIC CONFERENCE update existing and future opportunities	K. Thomas Saskatchewan Indian Agriculture Program Regina	ERDA No Budget 0	5,000
ERD-V-0443 5.2-27 FARM WOMEN: MARKETING MANAGEMENT SKILLS design a program to address the socio-economic needs of rural families and provide a framework for the rural family to cope with changes such as those from the community, the economy and the roles of family members	M. Cline Saskatchewan Women's Institute	ERDA One Year 3,665	3,665

DEVELOPMENT

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PROCESSING			
* ADF-V-0129 POUND-MAKER EXISTING FEEDLOT - ETHANOL PLANT INTEGRATION develop the necessary data to determine the feasibility of the addition of grain fuel ethanol plant addition to the existing feedlot complex in Lanigan	W. Wildeman Pound-Maker Feeders Ltd. Lanigan	ADF Two Years 50,100	20,100
ADF-V-0144 PILOT STUDY IN SASKATCHEWAN ON THE RELATIONSHIP BETWEEN PESTICIDES AND CANCER determine the relationship of agricultural chemicals, including 2,4-D and certain types of cancer including soft tissue sarcoma, lymphoma and multipe mycloma	J. Dosman University of Saskatchewan	ADF Two Years 20,000	16,000
ERD-V-0446 1.4-30 GATHERING, ACCUMULATING, PROCESSING, PACKAGING AND MARKETING NORTHERN WILD PRODUCTS establish a network of buying stations in Northern Saskatchewan, train qualified buyers, develop transportation between buying stations, enhance existing processing systems, and develop further internationial markets	L. Donais - Prince Albert	ERDA One Year 14,074	8,000
NEW PRODUCT DEVELOPMENT			
ADF-V-0004 FIELD TESTING OF A NEW STRAIN OF LEAFCUTTING BEES determine if the selected trait of no field emergence of bees during the growing season is stably inherited in different areas and evaluate other desirable biological traits	G. Rank Saskatchewan Alfalfa Seed Producers Saskatoon	ADF Four Years 176,750	64,848
* ADF-V-0052 EXPERIMENTAL PRODUCTION OF PLEUROTUS (OYSTER) MUSHROOMS IN POTASH MINES OF SASKATCHEWAN investigate feasibility of growing oyster mushrooms underground in potash mines	K. Sosulski Saskatchewan Research Council Saskatoon	ADF Two Years 52,165	2,165

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0072 DEVELOPMENT OF A NATURAL AIR DRYING SYSTEM USING HORIZONTAL AIRFLOW develop and test a prototype natural air drying system that speeds up drying and increases efficiency by distributing the airflow horizontally	K. Kernahan Univision Industries Ltd. Humboldt	ADF Three Years 39,750	9,750
* ADF-V-0099 PROCESSING AND ANALYSIS OF EDIBLE OIL FLAX utilize the POS facilities, crush and assess the oil characteristics of the extracted oil of a brown-seeded edible oil flax genotype for potential use in food processing	W. Scowcroft Biotechnica Canada Inc. Calgary	ADF Two Years 96,986	56,986
ADF-V-0125 PORTABLE WHEAT MOISTURE TESTER develop a portable wheat moisture tester that is both technically and commercially viable	N. Thompson Thompson Farm Bredenbury	ADF Two Years 30,875	10,000
* ADF-V-0154 PRE-OPERATING DEVELOPMENT OF STRAW PARTICLE BOARD (PHASE II) conduct pre-operating assessments to determine the optimum operating and marketing configuration for manufacturing particle board from straw in Sasktchewan	B. Russell Solutions Management Inc. Regina	ADF One Year 50,000	40,000
ADF-V-0159 EVALUATION OF ALSTROEMERIA PRODUCTION evaluate the productivity of commercial Alstroemeria varieties under Saskatchewan conditions based on production information available elsewhere	S. Park Park Greenhouse Outlook	ADF Two Years 18,560	16,000
* ADF-V-0190 NEW PRODUCT SENSORY PANEL assist Saskatchewan food processors with new product development and education as to the value of consumer research	J. Russell University of Saskatchewan	ADF One Year 5,123	5,123

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0194 PEAOLA CHIP PRODUCTION AND MARKETING prepare peaola chips (pea chips fried in canola oil) via the procedure established by the National Research Council, Patent No. 1021994	G. Paik Kelvington Processors Ltd. Kelvington	ADF Two Years 100,000	60,000
ADF-V-0216 SCREENING OF NEW SPRING AND FALL-PLANTED GARLIC CULTIVARS FOR PRODUCTION IN SASKATCHEWAN cultivars obtained from Canadian and foreign sources will be tested for adaption to spring and fall planting in Saskatchewan; relative yields of spring versus fall plantings will be determined	D. Waterer University of Saskatchewan	ADF Two Years 20,300	8,000
ADF-V-0249 DEMONSTRATION PROCESS FOR PRODUCTION OF GENERIC GLYPHOSATE to establish a working process scheme for generic glyphosate production	K. Naber Focus on Inputs Assoc. Inc. Melfort	ADF One Year 150,234	50,000
ERD-V-0384 1.4-22 DEVELOPMENT OF HONEY/FRUIT BLEND develop a blend using Saskatchewan produced honey and wild fruits	J. Polson Northern Delights Inc.	ERDA Two Years 45,000	35,000
ERD-V-0447 1.1-23 SASKATOON BERRY MICROPROPAGATION PROJECT - PHASE I - DEVELOPING PLUG PROPAGULE TECHNOLOGY FOR THE SASKATOON BERRY AMELANCHIER ALNIFOLIA951212 commercialize a micropropagation procedure for the multiplication of the Saskatoon berry	P. Aulie Prairie Plant Systems Inc. Saskatoon	ERDA One Year 40,000	20,000
MARKETING			
* ADF-V-0115 FLAX SEED OIL AS A CONCRETE PRESERVATIVE develop new markets for flax seed oil (linseed) through the printing and distribution of a brochure containing information on how to prevent the scaling of concrete through the use of linseed oil	D. Jaques Flax Growers Western Canada Regina	ADF Two Years 15,000	3,000

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0134 MARKET DEVELOPMENT AND INVESTMENT PROMOTION - NORTHERN AGRICULTURE DEVELOPMENT promote the consumption of northern food products, develop new market opportunities, establish a northern identity and new processing and product opportunities	M. McKay Saskatchewan Indian Agriculture Program Prince Albert	ADF One Year 17,830	5,000
ADF-V-0165 MARKET RESEARCH AND PLANNING FOR THE SASKATCHEWAN GROWERS ASSOCIATION develop a competitive marketing plan for Sask. grown greenhouse products benefitting the province economically by job creation and local expansion of the greenhouse industry	D. Millar Saskatchewan Greenhouse Growers Association Saskatoon	ADF One Year 25,000	5,000
ADF-V-0173 NATURE BERRY FOOD PRODUCTS RESEARCH AND DEVELOPMENT PROJECT develop two new northern agricultural products using high-bush cranberries and pin cherries and develop and refine techniques for the drying and packaging of northern varieties of mushrooms	E. Keller Nature Berry Inc. La Ronge	ADF Two Years 31,175	24,000
ADF-V-0191 PRODUCT TRAINING AND DEVELOPMENT CENTRE secure our existing marketing share by creating and melastic demand for our products	D. Loewen CSP Foods Saskatoon	ADF Two Years 50,000	25,000
* ADF-V-0198 DOMESTIC MARKET SURVEY - NATURAL CHRISTMAS TREES provide a detailed and accurate 1988 Christmas tree market study for planning future production commitments and promotional/marketing strategies for domestically produced, natural Christmas trees	F. Sudol Saskatchewan Christmas Tree Growers Assoc. Paddockwood	ADF One Year 25,000	25,000
ADF-V-0220 HONEY MARKETING PLAN bring money to the province by increased sales of honey and increased returns to the producer	D. Valleau Saskatchewan Beekeepers Association Lintlaw	ADF Two Years 28,200	7,200

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0240 WILD HARVEST - ASSESSING THE POTENTIAL OF SASKATCHEWAN WILD FOODS determine the feasibility of marketing a comprehensive line of high quality products based on wild foods, wild and home-cultivated plants and crafts based on "products of the forest" through a coordinated marketing effort	D. Mitchell Northern Harvest Enterprises Regina	ADF One Year 12,500	2,500
ADF-V-0255 A STUDY OF SASKATCHEWAN'S HORSE RACING INDUSTRY TO DEVELOP A LONG RANGE PLAN FOR THE INDUSTRY develop a long term plan for the Saskatchewan horse racing industry that will lead to a viable and self-sustaining industry in Saskatchewan	D. Murray Derek Murray Consulting Associates Ltd. Regina	ADF One Year 95,800	40,000
SOILS			
ADF-V-0016 NITROGEN FIXATION AND FERTILIZER EFFICIENCY utilize annual grain legumes in a continuous system in Saskatchewan in order to conserve soils and improve quality	R. Rennie Esso Chemical Canada Lethbridge	ADF Four Years 229,815	36,735
* ADF-V-0127 DESICCATION AND HERBICIDAL POTENTIAL OF PREHARVEST APPLIED GLYPHOSATE evaluate the desiccation potential and herbicidal potential of glyphosate when it is used late preharvest on wheat, flax, rapeseed, peas, barley and lentils	K. Goudy Focus on Inputs Association Inc. Melfort	ADF Two Years 33,000	18,000
OTHER			
ADF-V-0050 ADF COMMUNICATIONS PLAN coordinate production of annual report, ADF newsletters, project reports and audio/visual presentions and provide project information to the department, other government agencies and the media	C. Bernhard Communications by Carol Regina	ADF Three Years 93,770	28,919

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-V-0055 GRANT TO POS PILOT PLANT provide protein, oil and starch research and development	V. Carr POS Pilot Plant Inc. Saskatoon	ADF Four Years 125,000	50,000
ADF-V-0069 COMMUNICATIONS give support for a communications package for the ADF	H. Johnson Saskatchewan Agriculture and Food Regina	ADF Three Years 421,621	154,029
ADF-V-0131 ADF ADMINISTRATION SERVICES to provide the support necessary to ensure time lines in receiving, recording, and distributing agriculture development fund information are adhered to	J. Taylor Saskatchewan Agriculture and Food Regina	ADF Three Years 60,564	41,903
* ADF-V-0142 EQUITY FINANCING FOR INDIAN LAND ACQUISITION develop a program to enable Indian farmers meeting an established criteria to acquire land off reserves with a combination of equity financing and personal resources	W. Davies Saskatchewan Indian Agriculture Program Regina	ADF One Year 27,500	7,500
* ERD-V-0190 5.1-04 CANOLA MARKETING REVIEW prepare, publish and distribute a review of marketing canola and canola products	W. Cooper Saskatchewan Canola Growers Association Saskatoon	ERDA Two Years 25,000	1,595
* ERD-V-0201 5.1-09 HORTICULTURE INFORMATION RETRIEVAL SYSTEM to develop a computerized (IBM compatible) information system for horticulture crops that could be used by personnel involved in information and technology transfer to the public	S. Nelson University of Saskatchewan	ERDA One Year 10,480	2,313
ADF-V-0207 FEEDING HORSES PUBLICATION publish "Feeding Horses Bulletin" resulting from the ADF project R-86-01-0146	C. Sebastian Communications by Carol Kendal	ADF One Year 6,478	6,478
ADF-V-0209 ADFNEWS provide technology transfer for ADF projects	C. Sebastian Communications by Carol Kendal	ADF One Year 21,000	11,961

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0217 PROGRAM COMMUNICATIONS provide communications to the ADF program	C. Lowery Chuck Lowery Communications Regina	ADF Two Years 14,303	14,303
ADF-V-0225 COMMUNICATIONS BY CAROL provide communications opportunities as requested by the Agriculture Development Fund	C. Sebastian Communications by Carol Kendal	ADF One Year 10,000	2,200
ADF-V-0235 FARM SAFETY PROGRAMS/WORKSHOPS FOR THE FAMILY to provide an environment to reduce injuries and fatalities due to farm accidents	B. Rowley Saskatchewan Safety Council Regina	ADF Two Years 87,900	18,600
ADF-V-0256 PROACTIVE COMMUNICATIONS CONSULTANTS to provide communications services to ADF	K. Omoth Proactive Communications Consultants Milestone	ADF One Year 45,000	12,512
* ERD-V-0263 5.1-15 FOOD PROCESSING HOTLINE - PILOT PROJECT encourage the food processing industry in Saskatchewan by providing a professional counselling service to rural and urban individuals	J. Benesh Benesh-Loraas Consulting Saskatoon	ERDA Two Years 13,500	13,500
* ERD-V-0271 5.1-12 FARM SAFETY VIDEO PROGRAM produce videos promoting farm safety	M. Zasada Saskatchewan Safety Council Regina	ERDA Two Years 38,510	8,510
ERD-V-0276 5.2-23 SASKATCHEWAN ADVANCED COMMUNITY LEADERSHIP INSTITUTE improve leader knowledge and skills relating to rural development through provision of workshops and related training materials in the areas of community economic development, communication, program planning and marketing	J. Derbowka Saskatchewan Committee on Rural Area Devel. Saskatoon	ERDA Two Years 20,000	10,000
* ERD-V-0343 5.1-19 CANADIAN WESTERN AGRIBITION AGRI-ED SHOWCASE ACTIVITY BOOK produce an activity book to increase awareness and appreciation of agriculture by today's youth	V. Headford Canadian Western Agribition Regina	ERDA One Year 11,592	11,592

DEVELOPMENT

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-V-0369 5.2-24 DETERMINE THE ROLE OF PRODUCTION CLUBS AND ASSOCIATIONS IN THE TECHNOLOGY TRANSFER PROCESS determine why farmers join production clubs and what role such groups play in the technology transfer process in Saskatchewan	G. Hass University of Saskatchewan	ERDA One Year 11,050	4,676
ERD-V-0415 5.1-20 FOOD PRO-DATABASE develop a computer database system on food processing for home and beginning cottage industry in rural Saskatchewan	J. Benesh Food Focus Saskatoon Inc. Saskatoon	ERDA Two Years 38,000	30,000

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
LIVESTOCK			
* ERD-D-0022 2.5-01 IRRIGATED SHEEP PASTURE determine if intensive sheep management along with irrigated forage production can produce a reasonable return to the producer	J. Koal J. Koal Saskatchewan Sheep and Wool Marketing Comm. Saskatoon	ERDA Three Years 96,850	11,350
* ERD-D-0032 2.2-10 IMPROVING THE AGRONOMICS AND FEED VALUE OF KOCHIA investigate different varieties of kochia and growing conditions related to feed value	E. Coxworth E. Coxworth Saskatchewan Research Council Saskatoon	ERDA Four Years 188,300	37,414
* ADF-D-0039 EXTENDED CROPPING USING SWEET CLOVER IN ROTATION FOR ROUND BALE SILAGE determine the feasibility of using sweet clover for round bale silage	B. Rapp J. MacIntyre J. MacIntyre Farm Brock District #17	ADF Two Years 4,469	2,135
ERD-D-0045 2.1-08 PREGNANCY CHECKING PROMOTION promote the value of pregnancy checking for improved productivity of cow-calf operations	R. Donald R. Donald Sask. Rural Development Regina	ERDA Four Years 31,000	8,947
ADF-D-0058 FAIRLIGHT FORAGE PROJECT provide information on suitability of grasses, rotation patterns, chemical weed control, benefits of forage crop fertilization and carrying capacity of pasture for farmers in the region and other parts of Saskatchewan	J. Pollock J. Pollock Fairlight Forage Association Moosomin District #05	ADF Three Years 31,095	8,148
ERD-D-0067 2.4-04 PRODUCTIVITY AND REPRODUCTIVE PERFORMANCE OF HERDS IN NORTHEAST SASKATCHEWAN show a herd health program in R.M. #394	L. Purves L. Purves Rural Municipality of Hudson Bay #394 Hudson Bay	ERDA Four Years 63,500	10,875

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0077 BALDWINTON FEEDLOT PROJECT provide extension activities involving backgrounding and finishing of calves and improve management skills needed to operate farm custom feedlots by generating accurate data performance	B. Sparling B. Sparling Northwest Feedlot Management Committee Lloydminster District #35	ADF Two Years 23,513	4,642
ADF-D-0121 VALUE OF MINERAL SUPPLEMENTS ON SUMMER PASTURE demonstrate the value of feeding mineral supplements on summer pastures	D. Struthers D. Struthers Crescent Grazing Cooperative Melville District #13	ADF Three Years 20,740	6,656
* ADF-D-0185 FEED TESTING AND RATION FORMULATION introduce 20 District #2 cattlemen to the feed test service as well as familiarizing them with ration formulation and the economic benefits that can be gained within their livestock enterprise	B. Bishop B. Bishop District #2 Assiniboia District #02	ADF One Year 1,700	1,661
* ADF-D-0198 EAST CENTRAL FEED TEST PROJECT demonstrate the advantages of feed and water test and ration formulation	L. Gutek L. Gutek East Central Region Yorkton District #12	ADF One Year 10,789	6,289
* ADF-D-0234 THE EFFECT OF AGE AT CASTRATION ON GROWTH RATES IN BEEF CALVES determine the growth and stress rate of calves castrated in the fall compared to spring castration	J. Polegi J. Polegi Ag Extension Board #12 Yorkton District #12	ADF One Year 1,550	872
ADF-D-0237 SAVORY GRAZING optimize production, conserve the soil and improve forage on native pasture land using the Savory Method of grazing	J. Ippolito T. Henderson T. Henderson Farm Lucky Lake District #40	ADF Three Years 3,216	657
* ADF-D-0239 INJECTABLE COPPER DEMONSTRATION demonstrate the effectiveness of biannual copper injections into cattle for conception rates, feed conversion and calving intervals	B. Doig B. Doig Ag Extension Board #43 Watrous District #43	ADF Two Years 9,137	3,345

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0247 SILAGE VARIETY COMPARISON compare several new varieties of silage crops to standard silage crops	B. Doig B. Doig Ag Extension Board #43 Watrous District #43	ADF Two Years 6,467	4,647
ADF-D-0257 HAY PRESERVATION PROJECT maintain the feed quality of freshly cut forage which has dried to under 25 per cent moisture prior to baling; preservative will be applied to the forage at baling to prevent spoilage	B. Rugg J. Hay J. Hay Farm Bradwell District #22	ADF One Year 477	477
* ADF-D-0258 TROUT FEED TRIALS examine production techniques to produce a 12-ounce trout in one season and reduce input costs to increase viability of trout production	G. Ivanochko K. Parada Besnard Fish Farms La Ronge District #44	ADF Three Years 114,600	19,723
ADF-D-0264 KINISTINO GRAZING CO-OP demonstrate establishment and seeding methods of two different legumes in pastures prone to spring flooding	T. Boyle T. Boyle Kinistino Grazing Co-op Kinistino District #28	ADF Two Years 5,800	790
* ADF-D-0287 FITCH FARM DEMONSTRATION PROJECT determine the economic viability of fitch production	G. Ivanochko W. McKenzie W. McKenzie Farm La Ronge District #44	ADF Two Years 3,670	388
* ADF-D-0320 CHAFF AND STRAW AMMONIATION demonstrate that ammoniated chaff and straw provide nutritions low cost feed for overwintering	L. Pigott L. Pigott West Central Region Kindersley District #17	ADF One Year 4,082	1,680
ADF-D-0322 CUSTOM FEED SAMPLING AND NUTRITION CONSULTING PILOT PROJECT increase use of feed analysis services and application of balanced rations by reducing input costs and increasing profitability	B. Hansen B. Hansen Ag Extension Board #1 Estevan District #01	ADF Two Years 22,963	11,330

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0323 CUSTOM FEED SAMPLING AND NUTRITION CONSULTING PILOT PROJECT demonstrate the need for custom feed sampling through increased profitability and better balanced rations for increased livestock production	L. Gutek L. Gutek East Central Region Yorkton District #42	ADF Two Years 22,963	16,003
* ADF-D-0324 CUSTOM FEED SAMPLING AND NUTRITION CONSULTING PROJECT increase use of feed analysis services and application of balanced ration by reducing input costs and increasing profitability through increased use	P. Gerwing P. Gerwing Ag Extension Board #9 Swift Current District #09	ADF Two Years 22,963	3,334
ADF-D-0338 CHAFF AND STRAW AMMONIATION demonstrate ammoniated straw and chaff production and the benefits of its low cost for overwintering	B. Fritz B. Fritz East Central Region Yorkton District #12	ADF One Year 9,400	870
* ADF-D-0340 CHAFF AND STRAW AMMONIATION promote the use of ammoniated chaff	P. Peterson B. Peterson Southwest Region Swift Current District #09	ADF One Year 4,300	2,500
ADF-D-0342 BEEF CATTLE HANDLING demonstrate the benefits derived from properly designed and constructed handling facilities and provide assistance on specific layouts and constructive techniques	B. Campbell B. Campbell Parkland Agricultural Society Yorkton District #12	ADF One Year 9,655	4,706
ERD-D-0356 2.2-22 THE AMMONIATION OF AWNED CHAFF confirm the improvement in animal intake and performance achieved by ammoniating Katepwa and durum chaff under a plastic cover	J. Kernan J. Kernan Saskatchewan Research Council Saskatoon	ERDA One Year 0	7,500
ADF-D-0364 COPPER AND SELENIUM REQUIREMENTS OF FEEDLOT CATTLE WHERE WATER IS HIGH IN SULFATES demonstrate the economic benefit from injecting feedlot cattle with copper and selenium	D. Simmons D. Johnson D. Johnson Farm Kelliher District #39	ADF One Year 569	569

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-D-0378 2.6-07 SASKATCHEWAN CERTIFIED PRE-CONDITIONED FEEDER NEW SALES PROJECT regularize procedures for promoting the sale of pre-conditioned calves in Saskatchewan to increase the number of calves processed and sold	D. Pulfer D. Pulfer Saskatchewan Veterinary Medical Assoc. Saskatoon	ERDA Two Years 44,000	30,000
ADF-D-0405 ROTATIONAL GRAZING ON IRRIGATED PASTURE demonstrate increased productivity of a pasture using a rotational grazing system with minimal irrigation	J. Ippolito M. Miller Melton Miller Farm Beechy District #40	ADF One Year 1,730	1,299
ADF-D-0441 WATER QUALITY RELATED TO BALANCED RATIONS survey water quality among selected beef producers and use analysis in ration balancing	E. Moates E. Moates Lomond Beef Group Weyburn District #07	ADF One Year 581	279
ADF-D-0443 SASKATCHEWAN FEEDLOT PROJECT demonstrate custom backgrounding of calves and traditional versus accelerated feeding and generate management skills	B. Rugg K. MacDonald Saskatchewan Cattle Feeders Assoc. Saskatoon District #22	ADF Two Years 174,952	10,505
ADF-D-0448 FEED AMMONIATION FIELD DAYS demonstrate ammoniation of opportunity feeds at five days in Southeastern Saskatchewan	E. Tanner G. Barber G. Barber Farm Indian Head District #06	ADF One Year 2,000	1,190
ADF-D-0449 KOCHIA AS A WINTER FEED demonstrate use of a 50 per cent kochia ration for pregnant cattle at five sites in Southern Saskatchewan and evaluate weight gain condition reproductive efficiency	L. Moats J. Hanson Western Canada Kochia Growers Assoc. Moose Jaw District #08	ADF Two Years 40,125	12,897
ADF-D-0456 EGG SHELL QUALITY AND HATCHABILITY IN BROILER BREEDER FLOCKS Determine how much egg shell quality affects hatchability. to demonstrate practical method of measuring hatching egg shell quality.	J. Holm C. Bennett University of Saskatchewan Saskatoon District #20	ADF One Year 2,010	710

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0457 BACKGROUNDING TO FEEDLOT USING ROTATIONAL GRAZING demonstrate the complimentary aspect of a rotational grazing system and a feedlot	L. Gutek B. Mennie Kelvington Agricultural Society Kelvington District #42	ADF Two Years 28,570	3,388
ADF-D-0462 DISTRICT #2 LIVESTOCK NUTRITION PROJECT demonstrate proper feed sampling techniques, provide livestock producers with balanced rations, identify nutrition problems and provide management recommendations and evaluate adoption of feed testing	C. Ruschkowski K. Dyok Watson Agriservices Watson District #02	ADF One Year 7,892	1,436
ADF-D-0470 ROTATIONAL GRAZING AND SOIL FERTILITY MANAGEMENT TO MAXIMIZE BEEF PRODUCTION demonstrate the use of a rotational grazing pasture management system, determine animal performance in pounds gain per acre utilizing a rotational grazing system and demonstrate and determine forage yield and quality differences	D. Perrault G. Reed Gary Reed Farms Porcupine Plain District #25	ADF One Year 4,024	1,998
ADF-D-0482 INCREASED WOOL PRODUCTION WITH THE AUSTRALIAN MERINO SHEEP THROUGH LAPROSCOPIC ARTIFICIAL INSEMINATION demonstrate yield, grade and fleece weight of 1/4, 1/2 and 3/4 blood Merino with Corriedale ewes	P. Gerwing L. & B. Flaig L. & B. Flaig Farm Tompkins District #09	ADF Three Years 12,318	2,437
ADF-D-0547 OSTRICH REARING IN SASKATCHEWAN demonstrate ostrich husbandry	G. McLean D. and J. Wallace D. and J. Wallace Farm Oxbow District #41	ADF One Year 9,725	1,885
ENGINEERING			
* ADF-D-0531 ARTIFICIAL RECHARGING OF CONFINED AQUIFERS USING GOOD QUALITY SURFACE WATER store good quality surface water in confined aquifers using artificial recharging for the University of Saskatchewan	J. Holm J. Holm District #22 ADD Board Saskatoon District #22	ADF One Year 9,680	7,441

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
IRRIGATION			
ADF-D-0005 CANOLA VARIETIES DEMONSTRATION using all agronomic practices recommended for irrigated canola production, demonstrate on a field-scale basis a number of canola varieties from Western and Eastern Canada	S. Adam J. Bessel Saskatchewan Canola Growers Assoc. Melfort District #27	ADF Three Years 11,222	2,992
ECONOMICS			
* ADF-D-0004 SASKATCHEWAN NURSERY TRADES ENHANCEMENT PROGRAM provide support to build and strengthen the provincial horticulture association by establishing a central clearing house for the industry, and provide a vehicle for the development of an education program	C. Abrahamson C. Abrahamson Saskatchewan Nursery Trades Assoc. Carnduff District #41	ADF Two Years 50,000	5,000
* ADF-D-0243 WYNYARD MAXIMUM ECONOMIC YIELD CLUB determine methods of wheat farming that will produce maximum economic yield	L. Reeve L. Reeve Wynyard MEY Club Wynyard District #20	ADF One Year 2,030	1,470
ADF-D-0489 MAXIMUM ECONOMICAL YIELD CLUB AND ON-FARM CROP PRODUCTION TRIALS bring research to the farm level, explore and identify specific practices that contribute to the most economical yield, try products on the farm before they are widely marketed and diversify crop base	S. Adam D. Tarrant Cargill Ltd. Melfort District #27	ADF One Year 4,705	1,470
CROPS AND FORAGES			
ADF-D-0003 DEMONSTRATION AND EVALUATION OF INTENSIVE CEREAL MANAGEMENT (ICM) SYSTEMS IN SPRING AND WINTER WHEAT demonstrate and evaluate advantages and disadvantages involved in cereal production using ICM principles	E. Tanner E. Tanner Ag Extension Board #6 Indian Head District #05	ADF Three Years 25,110	8,162

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0059 ROTATIONAL INTENSIFIED GRAZING demonstrate that rotational intensified grazing increases stocking rates per acre while improving the stand of grass and reducing bush and other less desirable species	J. Pollock R. Duczek R. Duczek Farm Whitewood District #05	ADF Three Years 4,324	2,290
* ADF-D-0075 MAXIMIZING BARLEY YIELDS demonstrate the response of a regular feed barley variety and a semi-dwarf variety under varying input levels	B. Swanson L. Christopherson District 32 Weldon District #32	ADF Three Years 3,360	172
* ADF-D-0099 SAFFLOWER PRODUCTION TEST plant a 30-acre field-sized plot of safflower to demonstrate a possible alternate cash crop which would equal the net return of wheat but allow an off-board delivery with opportunities similar to canola	J. Polegi R. Kaeding Wagon Wheel Seed Farm Churchbridge District #12	ADF One Year 600	600
ERD-D-0106 1.3-02 FORAGE CROP RESEARCH provide incentives to forage associations or district boards for forage research and demonstration projects	D. Gayton D. Gayton Saskatchewan Agriculture Regina	ERDA Five Years 96,000	14,401
* ADF-D-0112 FERTILIZING ERODED KNOLLS show that heavy rates of phosphorus application will increase production on eroded knolls	J. Ippolito H. Mutlow H. Mutlow Farm Fiske District #40	ADF Two Years 1,020	314
* ADF-D-0116 ZERO-TILLAGE use zero-tillage techniques for production of cereal grain crops	L. Moats R. Anderson Anderson Farm Rosetown District #40	ADF One Year 1,175	1,145
ADF-D-0120 DISTRICT #13 WEED CONTROL PROJECT demonstrate different herbicides and application methods to control hard-to-control weeds such as Canada Thistel, scentless chamomile and quackgrass	M. Ayars M. Ayars Ag Extension Board #13 Melville District #13	ADF Two Years 2,178	90

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0128 SULFUR DEFICIENCY IN CANOLA - LOW VERSUS HIGH AREAS IN FIELD determine what levels of sulfur are required for canola production	D. Cubbon D. Cubbon District #36 ADD Meadow Lake District #36	ADF One Year 1,200	600
* ADF-D-0135 SALINITY MANAGEMENT maintain slender wheatgrass and alfalfa to increase the productivity of a severely saline area	K. Pedersen B. Bruce B. Bruce Farm Lajord District #14	ADF Two Years 921	322
ERD-D-0135 2.5-02 NEW PASTURE AND GRAZING TECHNOLOGIES conduct forage trials to demonstrate the effectiveness of new grassland management techniques	W. Pyle W. Pyle Saskatchewan Rural Development Regina	ERDA Five Years 1,651,000	512,131
ERD-D-0136 1.3-10 PRECISE FARM NAVIGATION AND NIGHT SPRAYING demonstrate using a navigation system to reduce spraying cost through lower application rates and elimination of overlap	R. Palmer R. Palmer Accutrak Systems Ltd. Regina	ERDA Two Years 24,985	11,985
* ADF-D-0137 CEREAL CROPS FOR FORAGE PRODUCTION IN THE SOUTHWEST determine and demonstrate how the feed supply for cattle in Southwest Saskatchewan can be increased through the use of annual forage crops and determine if fall rye can be successfully underseeded	P. Gerwing P. Gerwing SW Saskatchewan Forage Co-Op Assoc. Swift Current District #09	ADF Two Years 8,656	2,538
ADF-D-0152 SALINE SOIL FORAGE ADAPTABILITY determine which forage crops are best suited for specific saline soils as well as methods of getting a reasonable yield	J. Polegi E. Chipeur - Rokeby District #12	ADF Two Years 7,000	354
ADF-D-0168 TALL WHEATGRASS SNOWTRAP STRIPS FOR EXTENDED CROPPING ON DARK BROWN SOILS use snow management in grass barriers for extended cropping	B. Hurd J. Harrington J. Harrington Farm Glenside District #16	ADF Four Years 1,885	1,145

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0172 INFRARED CROP MONITORING demonstrate feasibility of using infrared photography to monitor insects and diseases on various crops	H. Nickel E. Truelove E. Truelove Farm Richard District #34	ADF Three Years 4,110	796
* ADF-D-0194 ECONOMICS OF CONTINUOUS CROPPING compare net returns of continuous cropping with that of a 50/50 crop rotation	B. Rapp H. Sutherland Sutherland Farm Eston District #17	ADF Three Years 10,650	2,622
ADF-D-0203 SAVORY GRAZING METHOD EVALUATION evaluate the evonomic returns, stocking rate and forage improvement of pasture land using the Savory grazing method	B. Rapp D. Lothammer D. Lothammer Farm Eatonia District #17	ADF Four Years 3,268	685
ADF-D-0208 CLOVER PLOWDOWN, BLACK LENTIL PLOWDOWN AND SUMMERFALLOW determine and compare the results of using sweet clover as green manure with black lentil plowdown	H. Nickel S. Jones S. Jones Farm Richard District #34	ADF Three Years 3,426	1,991
ADF-D-0216 THE DEMONSTRATION OF AN ALTERNATE OVERWINTERING METHOD AND SUITABLE CULTIVARS FOR COMMERCIAL STRAWBERRY PRODUCTION IN SASKATCHEWAN use plastic mulch as a method of overwintering strawberries and supplementation of day-neutral strawberries to June bearing cultivars	J. Holm J. Turner University of Saskatchewan Saskatoon District #22	ADF Two Years 31,400	12,560
* ADF-D-0217 SUNFLOWER VARIETY TRIALS determine the agronomic and economic suitability of sunflower production and compare new lines and varieties of sunflowers	G. McLean M. Firth Sask. Sunflower Grower Assoc. Carievale District #41	ADF Three Years 24,330	3,496
* ADF-D-0225 ALFALFA SEED FERTILIZER TRIALS establish the optimum rate of sulfur and potassium fertilizer to apply to maximize alfalfa seed production	L. Fedorowich I. Olynyk I. Olynyk Farm Canora District #19	ADF Two Years 1,940	300

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution
* ADF-D-0227	B. Simm
FIELD PEA DEMONSTRATION	B. Simm
demonstrate the importance of proper seed innoculation and the use of phosphate fertilizer in field pea production	Ag Extension District #19 Canora District #19
ADF-D-0229	L. Fedorowich
NORGOLD SWEETCLOVER DEMONSTRATIONS	S. Hrynkiw
demonstrate the value of low-coumarin variety of sweetclover for production and soil improvement	Ag Extension Board #19 Canora District #19
* ADF-D-0230	B. Sim
CANOLA VARIETY DEMONSTRATION	B. Sim
compare the performance of different canola varieties in black soils	Ag Extension Board #19 Canora District #19
ADF-D-0231	G. Ivanochko
TIMBER BAY BLUEBERRY PROJECT	L. Beatty
develop techniques of blueberry production and marketing possibilities	Timber Bay Producers Associa Timber Bay District #44
* ADF-D-0238	D. Pidwerbesky
CORN AS AN ANNUAL BARRIER FOR SNOWTRAPPING	M. Hamilton
	M. Hamilton Farm
demonstrate the benefit of using corn strips as an annual barrier for trapping snow in a spring cereal/winter wheat crop rotation	Duval District #37
* ADF-D-0240	B. Rapp
CHEMICAL SUMMERFALLOW - BETTER METHODS	W. Walker
compare the results achieved with the current recommended rate and reduced rates of ammonium sulfate added to rustler herbicide	Wayne Walker Farm Plato District #17
* ADF-D-0241	L. Reeve
BARLEY PRODUCTION TRIALS	L. Reeve
demonstrate optimum malt characteristics through potash fertilization, seed treatment, phosphorus fertilization and seeding methods	Kandaco Barley Club Dafoe District #20
ADF-D-0265	L. Lee
ALFALFA FORAGE PRODUCTION	O. Craig
demonstrate the produciton potential of alfalfa as a cash crop with high fertilization rates	Ag Extension Board #31 Nipawin District #31

	Funding Agency/ Project Length	Funding
	ADF One Year 1,130	300
t #19		
	ADF Two Years 1,106	72
#19		
	ADF One Year 1,249	422
#19		
	ADF Three Years 19,119	8,856
ers Association		
	ADF One Year 120	86
	ADF One Year 1,000	902
rm		
	ADF Two Years 9,500	1,851
Club		
	ADF Three Years 2,759	418
Board #31		

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0267 SAFFLOWER PRODUCTION IN SOUTHEAST SASKATCHEWAN demonstrate the productivity of safflower in the Dark Brown Soil Zone	J. Ippolito I. McPhadden I. McPhadden Farm Milden District #40	ADF One Year 725	725
* ADF-D-0273 FERTILITY REQUIREMENTS OF LENGTHENING ROTATIONS confirm varying results of nitrogen requirements on long rotations	D. Simmons L. Huber L. Huber Farm Lipton District #39	ADF Two Years 2,006	556
* ADF-D-0274 SULFUR RESPONSE IN CANOLA apply sulfur to soil deficient in and soil not deficient in sulfur to measure the response	D. Simmons D. Simmons Ag Extension Board #39 Fort Qu'Appelle District #39	ADF One Year 748	239
* ADF-D-0279 SCLEROTINIA MONITORING PROJECT IN DISTRICTS #36 AND #33 use petal monitoring to predict levels of infestation on sclerotinia in fields of canola	D. Cubbon D. Cubbon Ag Extension Board #36 Meadow Lake District #36	ADF One Year 2,039	2,039
ADF-D-0282 USING INFRARED PHOTOGRAPHY TO ADJUST FERTILIZER APPLICATION demonstrate the use of infrared photos in determining fertilizer application rates in rolling land	J. Ippolito K. Allport K. Allport Farm Kyle District #40	ADF Two Years 2,445	622
* ADF-D-0283 SAFFLOWER PRODUCTION demonstrate the productivity of safflower in the Dark Brown Soil Zone	J. Ippolito B. Dolan B. Dolan Farm Milden District #40	ADF One Year 725	725
* ADF-D-0284 EVALUATION OF KNOLL FERTILITY AND FERTILIZER RESPONSE evaluate the response of applying additional nitrogen to knolls in a 50-50 crop rotation	B. Rapp B. Hammerlindl B. Hammerlindl Farm Mantario District #17	ADF One Year 1,270	878
ADF-D-0315 CHEMICAL WEED CONTROL IN FORAGE SEED CROPS demonstrate the effectiveness of various chemicals in controlling weeds in forage seed crops	L. Lee L. Lee Ag Extension Board #31 Nipawin District #31	ADF Three Years 21,099	4,306

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0318 MANAGEMENT OF NATIVE BLUEBERRY STAND demonstrate the possibilities of commercial production of blueberries through management of existing stands	G. Ivanochko G. Ivanochko Sask Agriculture and Food LaRonge District #44	ADF Three Years 19,225	16,245
ADF-D-0336 PRODUCTION FOR PROFIT demonstrate that economic yields can be obtained through proper fertilizer and herbicide use	E. Johnson D. Jensen Nw Regional Council North Battleford District #34	ADF Three Years 74,280	22,212
ADF-D-0341 MAXIMUM ECONOMIC YIELD CROP MANAGEMENT establish on-farm demonstrations complemented by detailed replicated trials on fertilizer use efficiency and crop rotations including peaola as part of a maximum economic yield program for East Central and Northeast Saskatchewan	L. Gutek L. Gutek Kelvington Agricultural Society Kelvington District #42	ADF One Year 59,490	39,490
ADF-D-0345 BEGIN GRAZING CO-OP PROJECT have controlled grazing over a longer season using crested wheat grass, meadow brome and cicer milkvetch	B. Swanson R. Piche Begin Grazing Cooperative Albertville District #32	ADF Two Years 3,200	2,963
* ADF-D-0348 POTATO HERBICIDE AND EQUIPMENT DEMONSTRATION demonstrate planting, harvesting and pest control methods in commercial potato production by holding a field day	J. Holm K. Retzlaff Saskatchewan Vegetable Growers Assoc. Yorkton District #12	ADF One Year 4,748	5,472
ADF-D-0349 ZERO-TILL FERTILIZER PLACEMENT ON HEAVY CLAYS demonstrate the most efficient means of applying fertilizer to get maximum response on heavy clay soils under zero-till conditions	B. Rapp G. Schwitzer R.M. #259 Crop Club Eston District #17	ADF Two Years 16,860	8,430
ADF-D-0357 DISTRICT #37 FORAGE DEMONSTRATION demonstrate the varieties of forages that are best adapted to the soils, salinity problems and climate in District #37	D. Pidwerbesky J. Hubick R.M. Council #220 Strasbourg District #37	ADF Three Years 13,245	8,567

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0359 FORAGE AND GRAZING TRIAL evaluate new forages for longevity under controlled grazing conditions	H. Amundson E. Strelav E. Strelav Farm Canwood District #33	ADF One Year 3,687	3,687
* ADF-D-0362 VALUE OF INDIAN HEAD LENTILS IN ROTATION demonstrate the value of Indian Head lentils to soil as a snow trap, nitrogen fixer and as a source of organic matter	D. Simmons M. Bedel M. Bedel Farm Lebret District #39	ADF One Year 574	574
* ADF-D-0363 EFFICIENCY OF 26-13-0 SEED PLACED FERTILIZER demonstrate the effectiveness of seed placed 26-13-0 fertilizer to increase net returns	D. Simmons R. Englot and V. Neill R. Englot & V. Neill Farm Abernethy and Kelliher District #39	ADF One Year 886	611
* ADF-D-0365 SULFUR RESPONSE IN CANOLA demonstrate the value of sulfur application to crops requiring sulfur and those not requiring sulfur according to soil tests	D. Simmons M. Leontowicz M. Leontowicz Farm Ituna District #39	ADF One Year 173	173
* ADF-D-0367 ESTABLISHING FORAGES ON UNPRODUCTIVE POTHOLES seed saline lowland areas to salt tolerant forages to reduce the spread of salinity and to increase land productivity by forage use	J. Polegi D. Borys D. Borys Farm Yorkton District #12	ADF Two Years 939	675
ADF-D-0369 FERTILIZATION FOR GRASS SEED PRODUCTION show the effects of incremental nitrogen on growth habit and seed yield of crested wheatgrass	B. Swanson B. Cromartie B. Cromartie Farm Birch Hills District #32	ADF Two Years 1,150	460
ADF-D-0370 INFRARED MAPPING DEMONSTRATION map saline and eroded areas on one quarter section and apply aditional fertilizer and stubble management to knolls	B. Swanson M. Clarke M. Clarke Farm Prince Albert District #32	ADF Two Years 1,750	325

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0372 NITROGEN PLACEMENT TRIALS evaluate the benefits of seed placed ammonium nitrate and phosphate in comparison to seed placed nitrogen and deep banded urea	S. Adam L. Spencer L. Spencer Farm Kinistino District #27	ADF One Year 1,330	1,330
* ADF-D-0376 PULSE VARIETAL DEMONSTRATION compare presently available pulse varieties	J. Holm D. Alderson Secan Saskatoon District #22	ADF One Year 5,741	7,820
ADF-D-0377 PASTURE FORAGE PROJECT evaluate light grasses each sown with three legumes for their grazing potential and fall feed value	J. Donovan G. Million G. Million Farm Meadow Lake District #36	ADF Three Years 2,575	1,206
ADF-D-0379 WEED CONTROL IN TTC CANOLA demonstrate effective and economical weed control in triazine tolerant canola and compare that control to summerfallow in the following crop	B. Sim E. Nordin E. Nordin Farm Buchanan District #19	ADF Two Years 1,620	1,075
* ADF-D-0381 EARLY MATURING SPRING WHEAT VARIETY TRIALS demonstrate the value of two new early maturing spring wheat varieties	W. Vanin J. Tanton J. Tanton Farm Stenen District #18	ADF One Year 725	725
* ADF-D-0382 EARLY MATURING SPRING WHEAT VARIETY TRIALS evaluate and promote kenyon and roblin spring wheat varieties	W. Vanin R. Fedoruk R. Fedoruk Farm Kamsack District #18	ADF One Year 725	725
* ADF-D-0383 EARLY MATURING SPRING WHEAT VARIETY TRIALS evaluate and promote kenyon and roblin spring wheat varieties	W. Vanin P. Holinaty P. Holinaty Farm Arran District #18	ADF One Year 725	725
ADF-D-0385 NITROGEN FERTILIZER ON PEAS determine the economic yield increase when higher rates of nitrogen fertilizer is applied on field peas	S. Adam V. Walker Walker Seeds Ltd. Star City District #27	ADF Two Years 4,100	1,243

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0387	G. Ivanochko	ADF	2,032
MARKET GARDEN DEMO PROJECT	P. Ratt	One Year	
demonstrate the management practices required to operate a successful market garden operation	P. Ratt & Associates Ile a la Crosse District #44	3,000	
ERD-D-0389 1.3-13	E. Bendig	ERDA	50,000
CANOLA POTENTIAL IN SASKATCHEWAN - GROW WITH CANOLA ON-FARM DEMONSTRATIONS	E. Bendig	Two Years	
encourage growers to apply production techniques to create growers' commitment to increase productivity to assure the marketplace of a stable and adequate supply of canola and increase the average yields of canola	Saskatchewan Canola Growers Assoc. Melfort	100,000	
ADF-D-0391	D. Perrault	ADF	2,385
FERTILITY MANAGEMENT ON ALFALFA	R. Wilson	Two Years	
determine the economic application rates of phosphate on new stands of process alfalfa	Hudson Bay Dehydrators Ltd. Hudson Bay District #25	5,161	
* ADF-D-0392	B. Rapp	ADF	3,065
EVALUATE SPICES AS A POTENTIAL CROP FOR SASKATCHEWAN	G. Palmer	Two Years	
evaluate three spice crops under Saskatchewan conditions	Gordon Palmer Farm Eston District #17	5,940	
ADF-D-0395	B. Hansen	ADF	272
DEMONSTRATION OF ANNUAL FORAGES	R. Johnson	One Year	
measure the yield of sorghum x sudan grass and annual cereal crops as forages grown at the same location	Rae Johnson Farm Kisbey District #01	429	
* ADF-D-0400	B. Rapp	ADF	140
WILD OAT MAPPING	E. Pavlik	One Year	
develop an accurate method of mapping wild oat patches during the summerfallow year	E. Pavlik Farm Eatonia District #17	519	
ADF-D-0401	B. Sim	ADF	377
TANGIER FLAT PEA FOR FORAGE AND PLOW-DOWN	B. Hurtig	One Year	
demonstrate the suitability of tangier flat peas as an annual forage and plow-down crop	B. Hurtig Farm Canora District #19	410	
ADF-D-0406	B. Hansen	ADF	532
COMPARISON OF ANNUAL FORAGES	L. Tedford	One Year	
measure the yield and quality of sorghum x sudam grass and cereal crops as forages	L. Tedford Farm Estevan District #01	541	

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0407 CORN AS AN ANNUAL BARRIER FOR SNOW TRAPPING demonstrate the benefit of using corn strips as an annual barrier for trapping snow in a spring cereal/winter wheat rotation	K. Beaulieu M. Hamilton M. Hamilton Farm Duval District #37	ADF One Year 120	45
* ADF-D-0408 PRODUCTION OF FIBRE FLAX FOR PILOT PROCESSING evaluate the quality of retted straw	D. Belisle A. Ulrich Carcan Ltd. Saskatoon District #22	ADF One Year 6,000	4,000
ADF-D-0409 INDIAN HEAD LENTIL TEST investigate feasibility on black and grey wooded soil	H. Amundson H. Amundson Shellbrook Crop Production Club Shellbrook District #33	ADF One Year 600	568
* ADF-D-0410 INDIAN HEAD LENTILS FOR GREEN MANURE demonstrate the feasibility of plow-down of Indian Head lentils for green manure	K. Daniels J. Buswell Great Bend Agricultural Committee Borden District #29	ADF One Year 362	362
* ADF-D-0411 SOIL TESTING FOR VARIABLE FERTILIZATION determine soil test variability and fertilizer requirements on upper and lower slopes separately, and determine potential for variable fertilizing within a field	M. Ayars G. Kidney G. Kidney Farm Tisdale District #26	ADF One Year 216	216
ADF-D-0412 FORAGE FERTILIZATION increase hay production from four year old alfalfa on stony land	R. Button C. Fox Ag Extension District #36 Archerwill District #36	ADF One Year 360	196
* ADF-D-0434 FALL GRAZING OF CEREAL demonstrate the benefits of Fall rotational grazing of late seeded cereals using moveable electric fencing	B. Swanson B. Wiberg Clearwater Grazing Cooperative Paddockwood District #32	ADF One Year 575	543
* ADF-D-0436 BARLEY VARIETY CONTROL test barley varieties under field conditions to see how they perform	D. Cubbon A. Ehle A. Ehle Farm Meadow Lake District #36	ADF One Year 206	206

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0437 DOUBLE CROPPING OF WINTER AND SPRING CEREALS FOR FORAGE PRODUCTION evaluate the feasibility of growing two cereal crops in one year for silage production	D. McKell J. Smith J. Smith Farm Indian Head District #06	ADF One Year 1,651	1,320
ADF-D-0450 SEEDBED COMPACTION REQUIREMENTS FOR AIRSEEDERS demonstrate the effects of different seedbed/seed row packing systems for airirseeders.	P. Gerwing H. Wall North Hill Conservation Area, Inc. Vanguard District #09	ADF One Year 10,905	8,714
ADF-D-0451 EFFECT OF FERTILIZER ON YIELD AND NUTRITIVE CONTENT OF A TAME PASTURE IN THE DARK BROWN SOIL ZONE demonstrate an increase in protein and nutritional levels of mature tame grass stands through the use of fertilizer	L. Bezan L. Bezan Saskatchewan Beef Cattle Performance Assoc. Regina District #14	ADF One Year 785	603
ADF-D-0460 FAIRLIGHT FORAGE PROJECT, 1988 provide information on suitability of grasses, legumes, cereal patterns, chemical weed control and benefits of forage crop fertilizer which will be useful to farmers in the region and other areas of Saskatchewan	J. Pollock W. Sauter Fairlight Forage Association Moosomin District #05	ADF One Year 24,510	3,426
ADF-D-0472 ALFALFA SEED PRODUCTION to provide answers for alfalfa seed production industry problems	D. Cubbon H. Kennedy H. Kennedy Farm Meadow Lake District #36	ADF One Year 4,625	896
ADF-D-0473 EFFECT OF WATER VOLUME, CHEMICAL RATES AND SPRAY DROPLET SIZE ON WEED CONTROL evaluate and demonstrate the effects of low water volumes, chemical rates and droplet size on chemical weed control with Roundup and Poast	B. Swanson T. Tomtene Birch Hills Crops Club Birch Hills District #32	ADF One Year 15,630	7,000

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0474 GRASSLAND FERTILIZATION PROJECT To demonstrate in the NW Extension Region research done by "Farming for the Future" in Alberta, using Farmland (vern) banding knives to apply fertilizer on grassland. Economic comparisons will be made with broadcast fertilizer	E. Johnson A. Morin Dst. 38 Forage Assoc. Spruce Lake District #38	ADF One Year 12,850	8,430
* ADF-D-0477 DISTRICT #1 DURUM WHEAT MAXIMUM ECONOMIC YIELD (MEY) PROJECT test various durum wheat production practices within District #1, assess the economic viability of these and create awareness of MEY practices among durum wheat producers in order to further promote MEY projects/MEY crop clubs	B. Hansen R. Hagel R.M. of Benson #35 Benson District #01	ADF One Year 7,339	5,871
* ADF-D-0478 DISTRICT #1 CANOLA MAXIMUM ECONOMIC YIELD (MEY) PROJECT test various canola production practices within the canola growing area of District #1 and demonstrate and create awareness of MEY practices among producers in order to promote MEY projects	B. Hansen R. Hagel R.M. of Benson #35 Benson District #01	ADF One Year 7,379	5,903
ADF-D-0485 EVALUATION OF DRYLAND PRODUCTION OF GREAT NORTHERN BEAN evaluate the potential for production of great northern bean on dryland in West Central Saskatchewan	W. Hurd H. Wagner Wagner Farm Company Ltd. Outlook District #16	ADF One Year 12,297	1,433
* ADF-D-0495 ALFALFA VARIETIES DEMONSTRATION demonstrate and evaluate the superior yields that can be obtained from four new varieties of alfalfa	W. Vanin W. Kryklywicz Parkland Forage Association Kamsack District #18	ADF One Year 7,941	6,353
ADF-D-0496 EVALUATION OF THE PRIMORSKY LUPIN BEAN FOR SASKATCHEWAN demonstrate and evaluate on a field scale the Primorsky variety of lupin bean in Saskatchewan	B. Fritz M. Helgason Helgason Acres Ltd. Foam Lake District #20	ADF One Year 3,756	3,005

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0499 MEADOW BROMEGRASS GRAZING DEMONSTRATION establish four demonstration sites where the value of meadow bromegrass for grazing can be demonstrated using electric fencing and rotational grazing	W. Vanin W. Kryklywicz Parkland Forage Association Kamsack District #18	ADF One Year 4,081	2,490
ADF-D-0500 PASTURE FERTILIZATION to demonstrate increased carrying capacity on pasture through the use of fertilizer	R. Nicklen R. Nicklen NE Grassland & Forage Cooperative Ltd. Carrot River District #31	ADF One Year 600	362
ADF-D-0501 BIOLOGICAL CONTROL OF LEAFY SPURGE demonstrate the effectiveness of spurge flea beetles as biocontrol agents of leafy spurge, monitor previous release sites, conduct field days and distribute additional beetles	D. Billett D. Chambers Saskatchewan Association of Rural Municipal. Regina District #14	ADF One Year 17,780	14,125
ADF-D-0504 CAGE CULTURE OF SALMONIDS cage culture production of atlantic salmon arctic char and brook trout under Northern Saskatchewan conditions	G. Ivanochko H. Cook Besnard Fish Farms La Ronge District #44	ADF One Year 17,500	6,435
* ADF-D-0505 EVALUATION OF HERBS AND SPICES AS ALTERNATIVE CROPS FOR THE SPEERS AREA try herbs and spice crops that can be economically grown under field conditions	H. Nickel R. Sjoberg R. Sjoberg Farms Speers District #34	ADF One Year 1,330	973
ADF-D-0512 ECONOMICS OF ROTATIONAL GRAZING OF ANNUAL CROPS determine how annual cropping of wheat in the Dark Brown Soil Zone compares to using the same crop land for intensively managed annual forage	G. Loy G. Francis Gerry Francis Farm Craven District #39	ADF One Year 1,225	670
* ADF-D-0513 DISTRICT #1 VARIETY AND CROP TESTING PROJECT demonstrate and test alternate crops to diversify agriculture within agricultural District #1	B. Hansen R. Hagel R. M. of Benson #35 Benson District #11	ADF One Year 7,901	6,100

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0516 SUNFLOWER DEMONSTRATION PROJECT - DISTRICT #37 show economic and agronomic feasibility of sunflower production in Dstrict #37	D. Shortt G. Munholland G. Munholland Farm Strasbourg District #37	ADF One Year 2,543	599
ADF-D-0519 FERTILIZER PLACEMENT EVALUATION ON BROME ALFALFA HAY produce brome alfalfa hay land with increased fertility levels using methods	D. McKell G. Stephenson Gordon Stephenson Farm Qu'Appelle District #06	ADF One Year 3,375	1,796
ADF-D-0520 INTENSIVE GRAZING OF FERTILIZED CRESTED WHEAT AND BROME ALFALFA compare the response of brome alfalfa and crested wheat to 95 poundsof broadcast	D. McKell G. Stephenson G. Stephenson Farm Qu'Appelle District #06	ADF One Year 1,100	500
ADF-D-0521 INTENSIVE CROP MANAGEMENT show benefits of intensive management with respect to economics and time commitment by producers	K. Beaulieu R. Opfergelt Richard Opfergelt Farms Naicam District #37	ADF One Year 3,040	2,152
ADF-D-0522 QUALITY HAY WITH SORGHUM-SUNDANGRASS demonstrate economics of producing high protein cattle hay for sale by growing pioneer 988 sorghum-sudangrass hybrid as a single crop and with oats	S. Adam G. Lefebvre G. Lefebvre Farm St. Brieux District #27	ADF One Year 954	830
ADF-D-0525 ROUND BALE SILAGE DEMONSTRATION make round bale silage using plastic bags that hold 21 round bales	W. Vanin W. Kryklywicz Parkland Forage Cooperative Kamsack District #18	ADF One Year 6,250	4,500
ADF-D-0527 LENTILS AS A NURSE CROP FOR CRESTED WHEAT GRASS to see if lentil is beneficial to be used as a companion crop to grow crested wheat grass	J. Pollock P. Santo Santo Farm Whitewood District #05	ADF One Year 410	186

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0530 DUAL-PURPOSE SHELTERBELT promote soil conservation due to wind erosion, experiment with Saskatoon trees as a shelterbelt and establish a U-pick Saskatoon fruit project	D. McKell C. Bateman Carter Bateman Farms Wolseley District #06	ADF One Year 1,640	769
ADF-D-0537 IMPROVING SOIL MOISTURE RETENTION BY SEEDING METHOD improve moisture retention and improved yield with the use of the ConservaPak seeder versus a discer for seeding	D. Simmons D. Burley Dennis Burley Farms Fort Qu'Appelle District #39	ADF One Year 2,020	224
* ADF-D-0539 DIRECT SEEDING DEMONSTRATION adaptability of the conserva pak drill for direct seeding in the prince albert area	B. Swanson R. Goota Norsask Soil Conservation Assoc. Prince Albert District #32	ADF One Year 15,000	12,000
ADF-D-0549 KOCHIA QUALITY TEST determine viability and quality of kochia as a forage crop on poor quaility land.	J. Graham K. Miller Avonlea Soil Conservation Coop Avonlea District #08	ADF One Year 2,315	580
ADF-D-0560 FLAX VARIETIES COMPARISON compare the two flax varieties to evaluate which variety is most disease resistant	B. Hurd G. Ewen Gary Ewen Farm Riverhurst District #16	ADF One Year 1,401	2
ADF-D-0578 ON-FARM DEMONSTRATION TRIALS BY CARGILL-ELANCO to promote on-farm demonstration trials in NE Sask. through an existing Canola Growers Club	R. Button H. McCorriston Nicklen Siding Canola Growers Club Ridgedale District #26	ADF One Year 1,061	849
ADF-D-0579 DISTRICT #31 SOIL CONSERVATION PROGRAM promote soil conservation through on-farm demonstrations in the are of chemfallow minimum tillage and field shelterbelt programs	D. Craig D. Craig Dst. 31 ADD Board Nipawin District #31	ADF Two Years 18,536	4,473
ADF-D-0590 BARLEY VARIETAL TRIAL test barley varieties under field conditions to see how they perform in District #36	D. Cubbon D. Marsh Marsh Farms Meadow Lake District #36	ADF One Year 538	288

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0594 SULPHUR FERTILIZATION ON ALFALFA BREAKING to determine if there is any difference in yield on crops the year after coming out of alfalfa using different methods of sulphur fertilization	R. Button J. Kindrat Cargill-Elanco Canola Club Ridgedale District #26	ADF Two Years 596	193
EXTENSION			
* ADF-D-0206 A GUIDE TO BETTER ON-FARM DEMONSTRATIONS publish a guide on how to design, operate and use on-farm demonstrations	K. Pedersen D. England Sask Agriculture and Food Regina District #02	ADF One Year 19,000	10,913
ADF-D-0244 INSECT - CROP DISEASE, WEED AND SOIL DISPLAY develop four series of quality displays for use at various events in the six regions	K. Pedersen K. Pedersen Extension Services Regina District #08	ADF One Year 4,410	4,410
ADF-D-0371 NORTHERN GARDENING PROJECT to demonstrate improved gardening techniques such as fertilizers and use of plastic mulch	G. Ivanochko M. Morin Village of Ile a La Crosse Ile a La Crosse District #44	ADF One Year 12,030	10,034
ADF-D-0394 TECHNOLOGY TRANSFER coordinate technology transfers for the ADF demonstrations	G. Riemer G. Riemer Greg Riemer Consulting Craven District #22	ADF Two Years 91,000	80,944
ADF-D-0396 TECHNOLOGY TRANSFER provide technology transfers for the ADF demonstrations	B. Baumann B. Baumann Bruce Baumann Consulting Swift Current District #09	ADF Two Years 103,760	73,195
ADF-D-0397 TECHNOLOGY TRANSFER provide technology transfers for the ADF demonstrations	R. Kehrig R. Kehrig Ron Kehrig Consulting Saskatoon District #22	ADF Two Years 114,385	69,310
ADF-D-0398 TECHNOLOGY TRANSFER provide technology transfers for the ADF demonstrations	A. Edge A. Edge Ashley Edge Consulting Prince Albert District #32	ADF Two Years 114,165	56,393

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0416	A. Edge	ADF	1,436
NORTHEAST TOUR	A. Edge	One Year	
provide a means for administering the ADF district and regional bus tour policy	Ashley Edge Consulting Prince Albert District #32	1,436	
* ADF-D-0417	R. Kehrig	ADF	3,019
EAST CENTRAL TOUR	R. Kehrig	One Year	
provide a means of administering the ADF district and regional bus tour policy for district and regional tours conducted in the East Central and West Central regions	Ron Kehrig Consulting Watson District #22	3,019	
ADF-D-0420	A. Edge	ADF	4,275
PUBLICIZING THE ADF IN NORTHERN REGIONS	A. Edge	Two Years	
develop a communications/extension program to complement provincial ADF communications to make rural and urban people more aware of the ADF projects across our region	Ashley Edge Consulting Prince Albert District #32	16,800	
ADF-D-0421	B. Baumann	ADF	157
COMMUNICATION STRATEGY FOR THE SOUTHERN REGION	B. Baumann	Two Years	
enhance communication of the ADF demonstration activities to the public in Southeast and Southwest Saskatchewan	Bruce Baumann Consulting Swift Current District #08	13,641	
ADF-D-0423	R. Kehrig	ADF	2,062
WC & EC PROJECT VIDEOS	R. Kehrig	Two Years	
gather suitable vhs tape material on WC and Ec Regions ADF demonstrations promotion of activities of the ADF in its on-farm demonstration	R. Kehrig Consulting Ltd. Saskatoon District #22	20,852	
* ADF-D-0431	A. Edge	ADF	295
NORTHWEST REGIONAL ADF TOURS	A. Edge	One Year	
provide a means of administering the ADF district and regional bus tour policy	Ashley Edge Consulting Prince Albert District #32	295	
ADF-D-0432	R. Kehrig	ADF	3,262
WEST CENTRAL REGIONAL ADF TOURS	R. Kehrig	One Year	
provide a means of administering the ADF district and regional bus tour policy	Ron Kehrig Consulting Saskatoon District #22	5,400	
* ADF-D-0433	B. Baumann	ADF	2,495
SOUTHWEST REGIONAL ADF TOURS	B. Baumann	One Year	
provide a means of administering the ADF district and regional bus tour policy	Bruce Baumann Consulting Swift Current District #09	5,400	

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0438 EXTENSION ENHANCEMENT OF LOCAL ADF PLOTS erect signs and collect yield, soil and feed samples at four local demonstration sites to increase their extension value	J. Donovan J. Donovan Ag Extension Board #12 Yorkton District #19	ADF One Year 535	286
ADF-D-0452 EAST CENTRAL CROP CLUB CONFERENCE 1988 inform existing crop clubs of the funding and technical assistance available from government and agribusiness	R. Kehrig R. Kehrig Ron Kehrig Consulting Saskatoon District #12	ADF One Year 4,400	2,658
* ADF-D-0494 ADF PRODUCER CLUBS SEMINAR t identify the organizational features common to successful producer clubs and the evolution of such clubs thereby giving a filip to existing clubs and stimulus to prospective members and potential agribusiness sponsors	A. Edge A. Edge Ashley Edge Consulting Prince Albert District #34	ADF One Year 600	600
ADF-D-0532 EAST CENTRAL ADF TOURS - 1989 administer and coordinate district and regional tours consistent with the ADF tour policy and guidelines	R. Kehrig R. Kehrig Ron Kehrig Consulting Ltd. Saskatoon District #22	ADF One Year 8,000	1,956
ADF-D-0544 NORTHWEST REGIONAL ADF TOURS ADMINISTERING THE ADF DISTRICT AND REGIONAL BUS TOUR POLICY.	A. Edge A. Edge Ashley Edge Consulting Prince Albert District #32	ADF One Year 7,250	1,311
ADF-D-0552 SOUTHEAST REGION ADF TOURS administering the ADF district and regional bus tour policy.	B. Baumann B. Buamann Bruce Baumann Consulting Ltd. Swift Current District #09	ADF One Year 7,500	386
* ADF-D-0619 CROP CLUB "GATE" DISPLAY construct a crop club information display booth for the global agricultural technology exposition in Saskatoon	B. Rapp D. Sutherland R.M. #259 Crop Club Eston District #17	ADF One Year 322	322

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0201 WILD RICE TEST SEEDING WITH TREATY INDIANS IN NORTHERN SASKATCHEWAN demonstrate the test planting and/or the initiation of commercial rice production on lakes permitted by treaty Indian people in Northern Sasaktchewan	M. MacKay W. Daniels Prince Albert District Chiefs Prince Albert District #32	ADF Four Years 15,000	3,750
ADF-D-0212 GARLIC PRODUCTION IN SASKATCHEWAN demonstrate successful garlic production and estimate market and accepatnce for Saskatchewan garlic	J. Donovan E. Vermette Saskatchewan Vegetable Growers Assoc. Yorkton District #12	ADF Three Years 9,430	1,603
* ADF-D-0223 GROWTH ENHANCEMENT OF WARM SEASON VEGETABLE CROPS USING PLASTIC MULCH AND TUNNELS demonstrate the culture of warm season vegetables using plastic mulch and plastic tunnels	B. Hurd D. Dedall Spring Creek Garden Outlook District #16	ADF Two Years 2,213	1,138
ADF-D-0458 SASKATOON BERRY U-PICK OPERATION To investigate the potential for growing a good quality commercial Saskatoon Berry crop outside Parkland Zone and check potential for marketing. Investigate 3 varieties for suitability	K. Pedersen C. & B. Topp C. & B. Topp Farm Regina District #14	ADF Two Years 13,471	8,389
ADF-D-0554 ORCHARD DEMONSTRATION PROJECT to test for winter hardiness and other climatic factors which may effect growth and development of numerous fruit trees	K. Beaulieu B. Hamilton B. Hamilton Farm Duval District #37	ADF Four Years 6,050	3,600
ADF-D-0563 ORCHARD DEMONSTRATION PROJECT which kinds are best suited to our area for winter hardiness	K. Beaulieu A. & E. Krentz A. & E. Krentz Farm Duval District #37	ADF Four Years 2,900	1,235

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
SOILS			
ADF-D-0006 SOIL DEGRADATION demonstrate methods of improving soil organic matter or improving production on saline soils and make farmers consider the amount of soil degradation which is occurring	M. Ruszkowski M. Ruszkowski Ag Extension Board #15 Davidson District #15	ADF Three Years 20,237	5,143
ADF-D-0055 MICRONUTRIENT DEFICIENCIES IN SOIL demonstrate the benefits of applying micronutrient fertilizer to deficient soils according to soil test recommendations	K. Beaulieu D. Campbell Long Lake Agro Strasbourg District #37	ADF One Year 1,115	1,115
ADF-D-0129 SALINITY demonstrate cropping practices as a method of controlling the spread of salinity and/or reclaiming saline soils and demonstrate tile drainage as a method of reclaiming saline soils and/or stopping their spread	M. Ayars D. Wotherspoon Ag Extension Board #13 Melville District #13	ADF Four Years 4,235	540
ADF-D-0132 SALINITY MANAGEMENT maintain tall wheatgrass to increase productivity and economic returns on a saline area	K. Pedersen D. Leonard D. Leonard Farm Regina District #14	ADF Two Years 1,107	353
* ADF-D-0138 PHOSPHORUS FERTILIZER RATES compare two spring applied phosphorus fertilizer rates on spring wheat	E. Moats D. McKenzie McKenzie Farm Tribune District #07	ADF One Year 224	215
* ERD-D-0162 3.1-07 CONSERVATION FARMING support a "Conservation Farming Practices" program conducted in District #6	D. McKell D. McKell Ag Extension Board #6 Indian Head	ERDA Three Years 25,000	5,000
ERD-D-0163 3.1-09 "SAVE OUR SOILS" SOIL CONSERVATION AWARENESS AND DEMONSTRATION PROGRAMS reduce soil degradation in the district, increase exposure and awareness of ongoing soil conservation practices among local producers and increase data collection from local projects	J. Buchan J. Moen Jim Moen Consulting Ltd. Regina	ERDA Three Years 500,000	231,924

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0166 SOIL AND WATER CONSERVATION prevent deterioration in land quality from summerfallowing with tillage implements, try to control the spread of salinity by better water management and use legumes and other forages in the rotation	D. Tunbach D. Tunbach District #10 Swift Current District #10	ADF Four Years 81,850	18,576
ADF-D-0218 ASSESSMENT OF YIELD RESPONSE TO DEEP RIPPING assess the response of deep ripping on solonetzic soils	K. Beaulieu H. Smith H. Smith Farm Govan District #37	ADF One Year 13,149	72
ADF-D-0221 SOIL CONSERVATION THROUGH EXTENDED CROPPING demonstrate extended programs of minimum tillage and no tillage	J. Graham R. Howes Ag Extension Board #18 Moose Jaw District #08	ADF Three Years 68,034	25,395
* ERD-D-0249 3.1-10 SOIL CONSERVATION TROUGH EXTENDED ROTATIONS - 2ND YEAR initiate soil fertility field research, effective fertilizer application and make extended crop rotations practical and profitable in East Central Saskatchewan	J. Harapiak J. Harapiak Western Cooperative Fertilizers Ltd. Calgary	ERDA One Year 118,000	43,000
ADF-D-0268 YIELD ANALYSIS OF R.M. #259 obtain reliable yield measurements from crop club projects to evaluate each project	B. Rapp G. Switzer R.M. #259 Crop Club Eston District #17	ADF Three Years 4,520	645
* ADF-D-0270 NITROGEN RESPONSE ON SUMMERFALLOW apply nitrogen to deficient soil at recommended soil test levels to increase economic returns in summerfallow	D. Simmons D. Simmons Ag Extension Board #39 Fort Qu'Appelle District #39	ADF One Year 1,563	363
ADF-D-0319 DEEP PLOWING OF ORGANIC SOILS demonstrate the effect of deep plowing on the productivity of both shallow and deep organic/peat soil	D. Perrault D. Perrault Ag Extension Board #25 Hudson Bay District #25	ADF Three Years 17,032	3,121

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0327 THE EFFECT OF SOIL SAMPLING DATES ON NUTRIENT LEVELS determine changes in soil nutrient status over a period of sampling dates and compare the results of two soil testing labs	E. Tanner G. Herth G. W. Herth Farm Indian Head District #06	ADF One Year 450	360
ERD-D-0330 3.1-15 THIRD YEAR EAST CENTRAL SASKATCHEWAN SOIL CONSERVATION PROJECT evaluate and demonstrate extended crop rotation and conservation tillage under local soil and climatic conditions	B. Kennedy B. Kennedy Hoechst Canada Inc. Regina	ERDA Two Years 166,615	66,646
* ERD-D-0331 3.1-13 SOIL CONSERVATION THROUGH EXTENDED ROTATIONS initiate and manage a soil fertility field research program in East Central Saskatchewan to help create an awareness of the importance of effective fertilizer application to make extended crop rotations practical and profitable	J. Harapiak J. Harapiak Western Co-op Fertilizers Ltd. Calgary	ERDA Two Years 72,000	72,000
ADF-D-0374 DEEP RIPPING SOLONETZIC evaluate the effect of deep ripping solonetzic soil	B. Rapp K. Sanville Kevin Sanville Farm Smiley District #17	ADF One Year 1,383	1,106
ADF-D-0375 RESTORING PRODUCTIVITY TO ERODED KNOLLS restore productivity of eroded knolls by increasing nitrogen and phosphorus fertilizer that will improve plant growth	B. Rapp W. Walker W. Walker Farm Plato District #17	ADF One Year 1,175	840
* ADF-D-0378 MICRONUTRIENT FERTILIZER TRIALS correct a micronutrient deficiency problem by applying zinc sulfate fertilizer	B. Sim K. Kalmakoff K. Kalmakoff Farm Canora District #19	ADF One Year 1,160	243
* ADF-D-0399 ECONOMIC CONSERVATION FALLOW assess the field prior to each operation and determine the most economic method of weed control	B. Rapp S. Pavlik S. Pavlik Farm Eatonia District #17	ADF One Year 431	431

DEMONSTRATION

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* ADF-D-0403 CHEMFALLOW VERSUS CONVENTIONAL TILLAGE compare the costs of chemical summerfallow versus conventional tillage	B. Rapp B. Somerville B. Somerville Farm Mantario District #17	ADF One Year 349	349
ADF-D-0419 RHIZOME PLANTING ON SALINE SOIL plant rhizominous grass species to control spread of salinity and reclaim present saline areas	P. Gerwing P. Gerwing Wheatlands Conservation Area Swift Current District #09	ADF Two Years 67,473	51,866
ADF-D-0454 SALINE SOIL FORAGE ESTABLISHMENT establish a 100' strip of saline tolerant forages which would utilize the excess moisture and prevent saline areas from moving further	B. Hurd A. Tastad A. Tastad Farm Loreburn District #16	ADF One Year 1,005	351
ADF-D-0463 SOIL DEGRADATION show saline land can be productive by seeding saline soils to forages, and show proper methods of seeding forage	M. Ruzkowski D. Ehman D. Ehman Farm Davidson District #15	ADF One Year 9,814	5,802
ADF-D-0480 EFFECT OF FALLOW TECHNIQUES ON CROP RESIDUE RETENTION To obtain most economical fallow method to preserve maximum soil residue, moisture, and method to control weeds on fallow; to determine economicsand usefulness of wide blade use in havy clay soil.	J. Graham T. O'Connell Marquis Soil Conservation Coop Marquis District #08	ADF One Year 12,568	9,854
ADF-D-0509 SOIL CONSERVATION THROUGH TRASH MANAGEMENT demonstrate alternate methods of trash management for soil conservation in the rural municipality of Winslow #319	K. Olson A. Krahn R.M. of Winslow #319 Kerrobert District #24	ADF One Year 5,500	413
ADF-D-0515 CHEMFALLOW VS. TRADITIONAL SUMMERFALLOW using chemfallow practices vs. traditional summerfallow practices.	B. Richards W. Kehler Assiniboia Soil Conservation Coop Assiniboia District #02	ADF One Year 17,834	7,626

DEMONSTRATION

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ADF-D-0518 CORN AS AN ANNUAL BARRIER FOR SNOWTRAPPING use corn strips as an annual barrier for trapping snow in a spring creal/winter wheat rotation	K. Beaulieu M. Hamilton Murray Hamilton Farm Duval District #37	ADF One Year 370	64
ADF-D-0526 GLASLYN CANOLA PROBLEM to demonstrate the presence of any chemical component limiting the uptake of micronutrients in a soil sample from the Glaslyn area	V. Muller E. Seidle Seidle Farm Medstead District #38	ADF One Year 275	64
ADF-D-0534 PULSE BANDING LIQUID NITROGEN AS A POST IMUGENT VERSUS TRADITIONAL DEEP BANDING OF ANHYDROUS AMMOINIA show producers a new way of applying nitrogen with pulse banding	L. Bader J. Kretchuk Jerry Kretchuk Farm Elstow District #22	ADF One Year 1,180	650
ADF-D-0548 CONSERVATION TILLAGE EVALUATION impact of three conservation tillage alternatives at eight locations round Avonlea	J. Graham K. Miller Avonlea Soil Conservation Coop Avonlea District #08	ADF One Year 11,025	3,648
ADF-D-0550 SPOKED WHEEL FERTILIZER NESTING evaluate spoked wheel applicator on marquis terrain, compare crop and forage between nesting and normal operations, to do a cost benefit analysis of fertilizer nesting	J. Graham T. O'Connell Marquis Soil Conservation Coop Marquis District #08	ADF One Year 4,090	2,421
ADF-D-0571 CHEMFALLOW to use chemfallow on erodable land and to find out what yield differences could be achieved in comparison to normal summerfallowing with tillag implements	M. Ruszkowski M. Pederson M. Pederson Farm Elbow District #15	ADF One Year 570	456
* ADF-D-0607 CONSERVATION TILLAGE DEMONSTRATION demonstrate conservation tillage equipment and direct seeding equipment through a one day demonstration field day	H. Nickel L. Kemp Dst. 34 ADD Board North Battleford District #34	ADF One Year 2,440	1,792

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
LAND IMPROVEMENT			
ADF-D-0040 CLOVER PLOWDOWN DEMONSTRATION demonstrate the benefits of nitrogen fixation and improvement of tilth by growing yellow blossom sweet clover or red clover in a companion crop	J. Holm J. Holm Ag Extension Board #22 Saskatoon District #22	ADF Three Years 6,750	118
* ADF-D-0171 DEEP RIPPING test the feasibility and benefits of deep ripping soils	H. Nickel W. Acaster Wayne Acaster Farm Ruddell District #34	ADF One Year 635	185
ADF-D-0317 DEEP RIPPING improve solonetzic soil condition with deep ripping	L. Lee O. Craig O. Craig Farm Nipawin District #31	ADF Two Years 8,912	3,907
ADF-D-0466 SOIL FRACTURING TO INCREASE WATER INFILTRATION RATE to artificially fracture soil in order to enhance the infiltration of moisture from snowmelt and rainfall.	J. Butz A. Boisvert Boisvert Farm Willow Bunch District #02	ADF One Year 1,466	1,226
ADF-D-0557 CRITICAL AREA - EROSION to halt and reclaim a severely wind eroded site	P. Gerwing D. Smith Wheatland Conservation Area Swift Current District #09	ADF One Year 3,990	3,192
OTHER			
* ADF-D-0027 DEMONSTRATION ORCHARD evaluate the adaptation of various fruit tree varieties for production in the local area	L. Lee D. Craig D. Craig Farm Carrot River District #31	ADF One Year 848	429
* ADF-D-0143 DEMONSTRATION ORCHARD evaluate the adaptation of various fruit tree varieties for production in the local area	L. Lee D. Scott D. Scott Farm Garrick District #31	ADF One Year 764	299
ADF-D-0181 DEMONSTRATION ORCHARD PROJECT demonstrate fruit varieties that will produce well in Saskatchewan	M. Ayars C. Reimer C. Reimer Farm McKague District #26	ADF Two Years 1,374	518

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ERD-D-0198 5.2-12 FARMING TO WIN foster the development of private farm management services in the province	M. Pylypchuk C. Lewis Saskatchewan Agricultural Societies Saskatoon	ERDA Four Years 1,080,000	374,000
* ERD-D-0203 5.1-07 COMPUTERS IN FARMING - A HOMESTUDY COURSE develop a homestudy course available to farmers on using computes in their farm business	D. Wiebe D. Wiebe Agriview Management Ltd. Langham	ERDA One Year 16,540	6,540
* ADF-D-0254 GRASSHOPPER CONTROL BRAN BAIT SPREADER demonstrate grasshopper control that is economical, has a long residual and is environmentally safe	B. Hurd B. Hurd Ag Extension Board #16 Outlook District #16	ADF Three Years 990	990
ERD-D-0262 5.2-15 BETTER RURAL LIVING show leadership development workshops dealing with rural change	B. Belt B. Belt Saskatchewan Wheat Pool Regina	ERDA Two Years 10,350	10,350
ADF-D-0280 DEMONSTRATION ORCHARD - 87 demonstrate which varieties of fruit trees are best suited for commercial production in Saskatchewan	C. Ruschowski M. Marcinowski M. Marcinowski Farm Spalding District #21	ADF Two Years 2,273	1,203
* ADF-D-0292 DEMONSTRATION ORCHARD provide a site where varieties of fruit such as Saskatoons and Blueberries can be grown to compare the various growth patterns	Val Matschke Muller M. King M. King Farm Turtleford District #38	ADF One Year 3,050	639
* ADF-D-0299 FISCAL PROJECT MANAGEMENT -	H. Swanson H. Swanson Chartered Accountant North Battleford District #34	ADF One Year 366,016	3,317
* ADF-D-0300 FISCAL PROJECT MANAGEMENT -	Mooney, Wooley and Company Mooney, Wooley and Company Certified General Accountants Tisdale District #26	ADF One Year 360,000	2,181
* ADF-D-0301 FISCAL PROJECT MANAGEMENT -	F. Milliker F. Milliker Chartered Accountant Weyburn District #07	ADF Two Years 360,000	3,188

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0302 FISCAL PROJECT MANAGEMENT -	Stark and Company Stark and Company Chartered Accountants Swift Current District #09	ADF Two Years 355,480	6,818
* ADF-D-0304 FISCAL PROJECT MANAGEMENT -	G. Dean G. Dean Chartered Accountant Saskatoon District #22	ADF Three Years 505,426	13,549
* ADF-D-0305 FISCAL PROJECT MANAGEMENT -	Kemp, Thompson, Ballantyne and McLeod Kemp, Thompson, Ballantyne and McLeod Chartered Accountants Prince Albert District #32	ADF One Year 345,512	8,197
* ADF-D-0306 FISCAL PROJECT MANAGEMENT -	Cottenie and Gardner Cottenie and Gardner General Accountants Kamsack District #18	ADF Three Years 367,391	8,506
ADF-D-0427 MARKET GARDEN DEMONSTRATION demonstrate the viability and profitability in vegetable production	E. Hoats P. Santo District #7 Tyvan District #07	ADF One Year 410	280
ADF-D-0493 DIANA SCOTT DEMONSTRATION ORCHARD 1989 demonstrate the adaptation of various fruit tree varieties for production in the local area using casaron for weed control	L. Lee D. Scott Diana Scott Farm Garrick District #31	ADF One Year 100	280
ADF-D-0565 MOEN CONSULTING LIMITED provide final accounting and final evaluation reports on pilot Save Our Soils project	J. Buchan J. Moen Moen Consulting Limited Regina District #14	ADF One Year 13,950	4,035

ADF Technical Review Committees 1988-89

Livestock (April 1, 1988 to September 30, 1989)

Chairman — Peter Rempel
Secretary — Robert Ford

Don Hepburn	Mike Smith*
Milt Bell	Dennis Brown*
Allan Theede	Roger Fry**
Bazil Fritz	

* Appointed November 1, 1988
** Resigned July 1, 1989

Soils

Chairman — John Buchan
Secretary — John Kiss

John Stewart	Martin Hopkins
Glen Shaw	Melvin Wiens*
Bernie Ward	William Robb*
Con Campbell	Roy Button
Wally Nicholaichuk	

* Appointed November 1, 1988

On-Farm Demonstration

Chairman — Sandy Lauder
Secretary — John Taylor

Murdock MacKay	Larry White
Paul Shukin	Douglas Wotherspoon
Les Potter	Don Sutherland*
Ken Pedersen	Dave Christensen*
	John Dueck*

* Appointed July 1, 1988

Food and Marketing
(Committee formed April 1, 1989)

Chairman — Dave Sim
Secretary — Deanne Belisle

Doug Lisle	Jim Hannah
Bob Ford	Dave Christopherson
Clarence Peters	Del Bain

Agricultural Engineering
(Committee formed April 1, 1989)

Chairman — Martin Wrubleski

Secretary - Paul Gebhardt	Brian Campbell
Gerald Bayne	Mark Stumborg
Bill Reed	

Crops

Chairman — John Buchan
Secretary — Doug England

John Dueck***	Roy Button
Bryan Harvey	Jim Willick
Bernie Ward	Paul Jefferson
Cecil Stushnoff**	Lloyd Sandercock*

* Appointed November 1, 1988
** Resigned June 30, 1989
*** Resigned August 1, 1989

Human Resources

Chairman — Doug Lisle**
Chairman — Doug Maley****
Secretary — Lyle Stavness

Jack Stabler*	Chester Minhinnick*
Hartley Furtan*****	Doyle Wiebe***
John Murphy	Bob Bens***
Glen McGlaughlin	James Lowe
Donna Prefontaine*	Sandy Lauder

* Appointed April 1, 1989
** Appointed November 1, 1989
*** Term Completed April 1, 1989
**** Term Completed August 1, 1988
***** Resigned April 1, 1989

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Central Region
Ron Kehrig, Saskatoon 933-5094

Southern Region
Bruce Baumann, Moose Jaw 694-3616